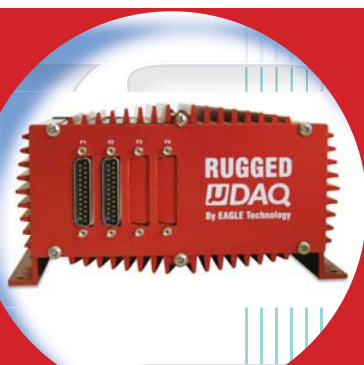


# data

## ACQUISITION

flexible and affordable

**COMPREHENSIVE SOFTWARE!**



**We build cost effective, ultra reliable boards, modules and products for the industrial market.**

- PCI, PCI-EXPRESS
- PC/104, PC/104+
- RS232/422/485
- DATALOGGERS
- MODBUS
- USB DAQ
- WIRELESS
- RUGGED DAQ
- ETHERNET DAQ

 **WaveView**  
for WINDOWS 

  
MicroDAQ Data Acquisition

  
**EAGLE**  
Technology

# Contents

PCI Boards

1 *PCI Data Aquisition* - 2 - 8

PC / 104

2 *PC/104-Plus Data Aquisition* - 9 - 10

USB

3 *MicroDAQ USB Data Aquisition* - 11 - 16

Ethernet

4 *MicroDAQ Ethernet Data Aquisition* - 17 - 19

Serial

5 *MicroDAQ Serial Data Aquisition* - 21 - 23

Wireless

6 *MicroDAQ Wireless Data Aquisition* - 25 - 27

Rugged

7 *RUGGED MicroDAQ* - 28 - 36

Pinouts

8 *Pinouts and Legacy Products* - 37 - 39

Accessories

9 *Accessories* - 40 - 45

Software

10 *Software* - 46 - 48

## PCI - 725 / 726 / 730 / 725E / 726E / 730E

### Entry Level Multi-function DAQ

 A/D  D/A  DIO  C/Timer

- High performance at a very low price
- All-round features make these boards perfect for integrators
- 14-bit A/D and high resolution 16-bit A/D versions available

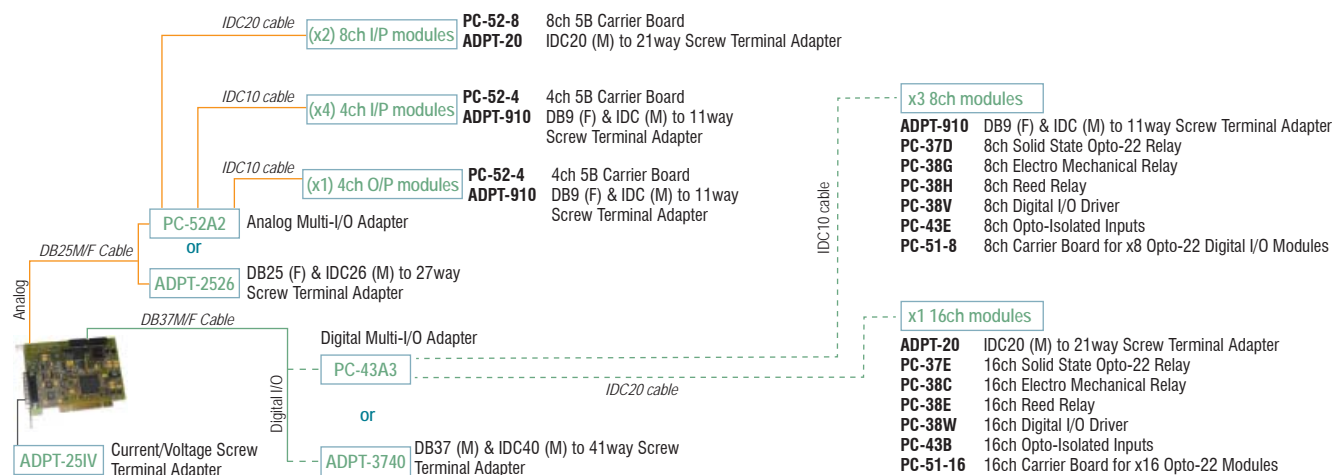


IDC40 to DB37 adapter supplied



MODEL	PCI-725	PCI-726	PCI-730	PCI-725E	PCI-726E	PCI-730E
Function	A/D	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers	A/D	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers
A/D Channels	16 SE or 8 Diff	16 SE or 8 Diff	16 SE or 8 Diff	16 SE or 8 Diff	16 SE or 8 Diff	16 SE or 8 Diff
A/D Resolution	14-bit	14-bit	14-bit	16-bit	16-bit	16-bit
A/D Sample Rate	100kHz	100kHz	100kHz	100kHz	100kHz	100kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V	±10V, ±5V, ±2.5V	±10V, ±5V, ±2.5V	±10V	±10V	±10V
Unipolar A/D Range	-	-	-	-	-	-
D/A Channels	-	-	4	-	-	4
D/A Resolution	-	-	14-bit	-	-	16-bit
D/A Voltage Range	-	-	±10V	-	-	±10V
DIO Channels	-	24 (TTL)	24 (TTL)	-	24 (TTL)	24 (TTL)
C/Timers (User)	-	3x 16-bit (82C54/TTL)	3x 16-bit (82C54/TTL)	-	3x 16-bit (82C54/TTL)	3x 16-bit (82C54/TTL)
Connectors	DB25M (A/D)	DB25M (A/D) IDC40 (DIO & C/T)	DB25M (A/D & D/A) IDC40 (DIO & C/T)	DB25M (A/D)	DB25M (A/D) IDC40 (DIO & C/T)	DB25M (A/D & D/A) IDC40 (DIO & C/T)

#### PCI-725/726/730 ACCESSORY DIAGRAM



### Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications

Programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



Free software included with every EAGLE Technology product.



**WaveView**  
for WINDOWS

- WaveView for Windows complete data acquisition software suite
- EDRE software development kit for Windows and for Linux
- Drivers for all major operating systems including Linux
- Full LabVIEW support for all products
- Testpoint and VEE support for all products



## PCI - 703-16 / 703-16A / 703-32 / 703-32A / 703-64 / 703-64A

## Professional Multi-function DAQ

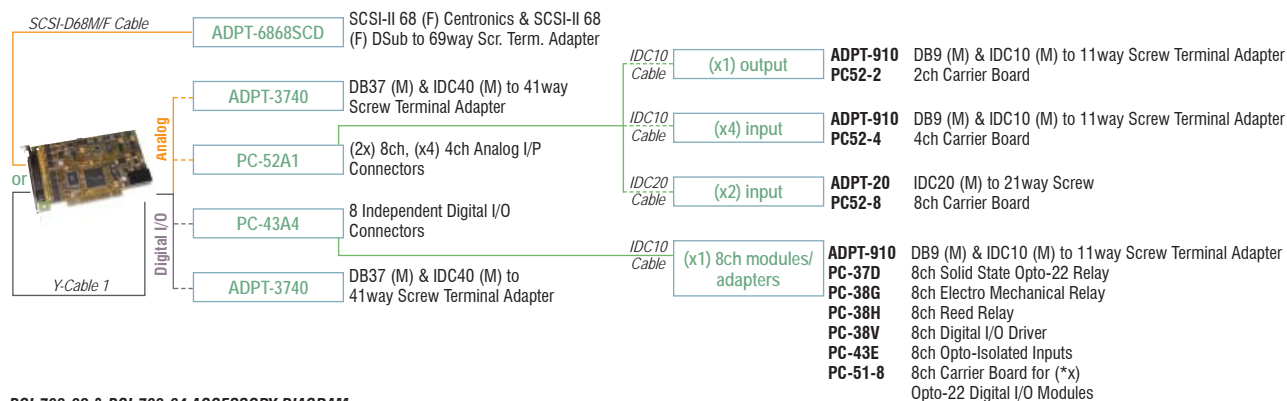
 A/D
  D/A
  DIO
  C/Timer

- Up to 64 Single ended (32 differential) analog inputs
- High speed, high accuracy 14-bit A/D
- Professional performance for demanding applications

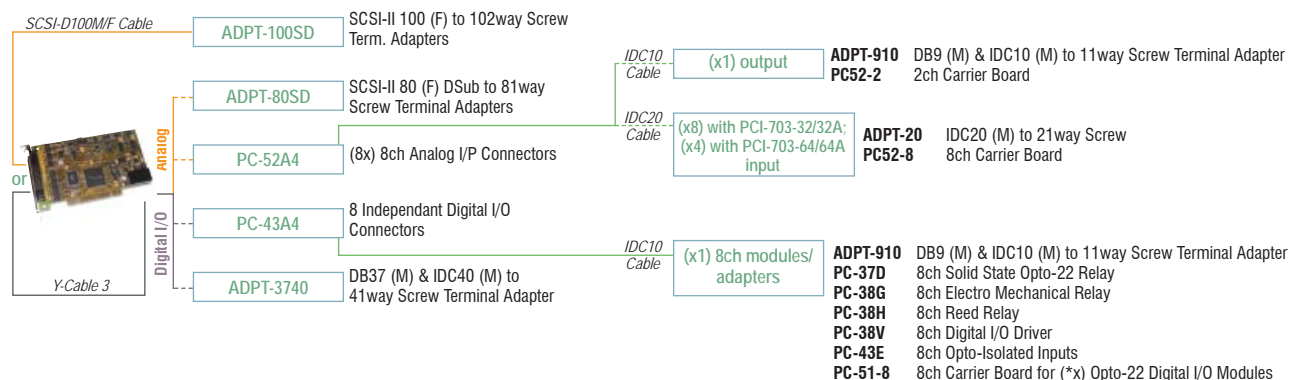


Model	PCI-703-16	PCI-703-16A	PCI-703-32	PCI-703-32A	PCI-703-64	PCI-703-64A
Functions	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers	A/D, DIO, C/Timers	A/D, DIO, C/Timers	A/D, DIO, C/Timers	A/D, DIO, C/Timers
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF	32 SE or 16 DIFF	64 SE or 32 DIFF	64 SE or 32 DIFF
A/D Resolution	14-bit	14-bit	14-bit	14-bit	14-bit	14-bit
A/D Sampling Rate	400kHz	400kHz	400kHz	400kHz	400kHz	400kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ $\pm 50mV$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ $\pm 50mV$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ $\pm 50mV$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ $\pm 50mV$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ $\pm 50mV$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ $\pm 50mV$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-200mV, 0-100mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-200mV, 0-100mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-200mV, 0-100mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-200mV, 0-100mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-200mV, 0-100mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-200mV, 0-100mV
D/A Channels	-	2	-	2	-	2
D/A Resolution	-	14-bit	-	14-bit	-	14-bit
D/A Output Range	-	$\pm 10V$	-	$\pm 10V$	-	$\pm 10V$
DIO Channels	18	18	18	18	18	18
C/Timers (user)	2 x 24bit (TTL)	2 x 24bit (TTL)	2 x 24bit (TTL)	2 x 24bit (TTL)	2 x 24bit (TTL)	2 x 24bit (TTL)
Connectors	SCSI Dsub 68M (A/D, DIO & C/T)	SCSI Dsub 68M (A/D, D/A, DIO & C/T)	SCSI Dsub 100F (A/D, DIO & C/T)	SCSI Dsub 100F (A/D, D/A, DIO & C/T)	SCSI Dsub 100F (A/D, DIO & C/T)	SCSI Dsub 100F (A/D, D/A, DIO & C/T)

## PCI-703-16 ACCESSORY DIAGRAM



## PCI-703-32 &amp; PCI-703-64 ACCESSORY DIAGRAM



## Software Support



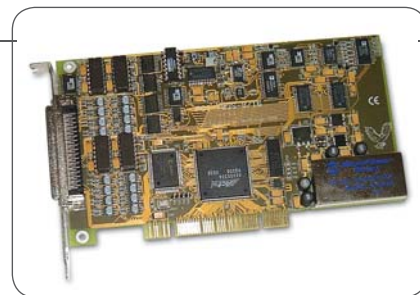


## PCI - 703-S8 / 703-S8A / 703-S16 / 703-S16A

### Simultaneous Sample & Hold

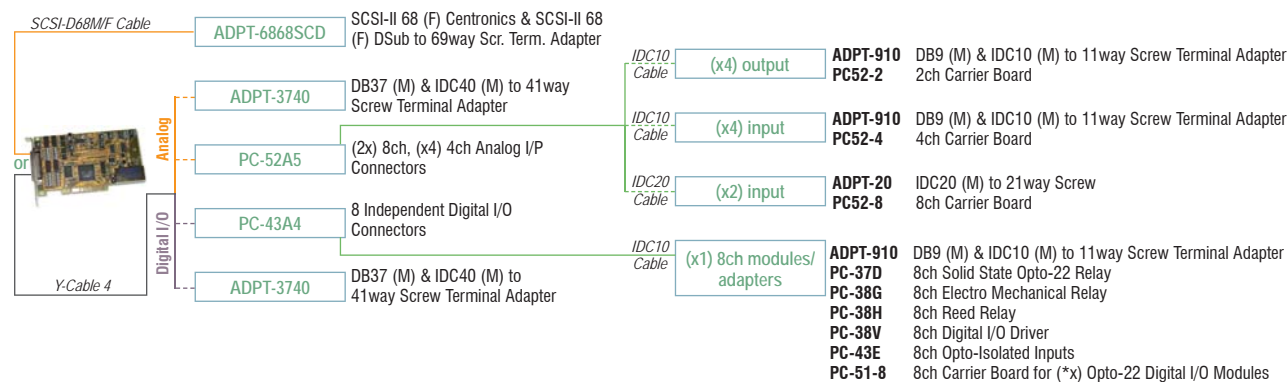
 A/D  D/A  DIO  C/Timer

- True simultaneous analog sampling
- High speed, high accuracy 14-bit A/D
- Onboard D/A & Counter/Timers



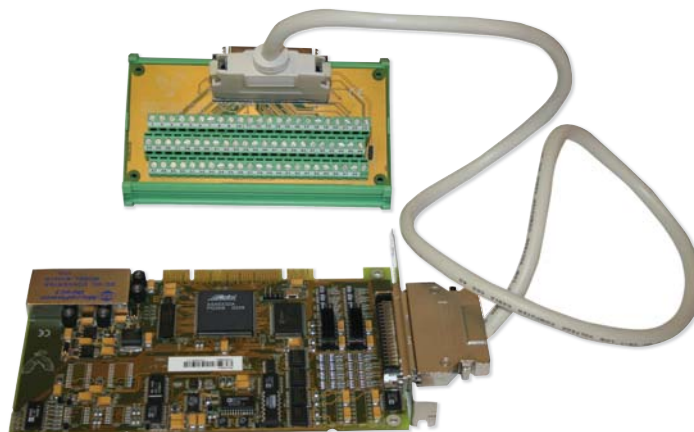
Model	PCI-703-S8	PCI-703-S8A	PCI-703-S16	PCI-703-S16A
Functions	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers
A/D Channels	8 DIFF Simultaneous sample & hold	8 DIFF Simultaneous sample & hold	16 DIFF Simultaneous sample & hold	16 DIFF Simultaneous sample & hold
A/D Resolution	14-bit	14-bit	14-bit	14-bit
A/D Sampling Rate	400kHz	400kHz	400kHz	400kHz
Bipolar A/D Range	$\pm 5V, \pm 2.5V, \pm 1V, \pm 500mV, \pm 250mV, \pm 100mV, \pm 50mV, \pm 25mV$	$\pm 5V, \pm 2.5V, \pm 1V, \pm 500mV, \pm 250mV, \pm 100mV, \pm 50mV, \pm 25mV$	$\pm 5V, \pm 2.5V, \pm 1V, \pm 500mV, \pm 250mV, \pm 100mV, \pm 50mV, \pm 25mV$	$\pm 5V, \pm 2.5V, \pm 1V, \pm 500mV, \pm 250mV, \pm 100mV, \pm 50mV, \pm 25mV$
Unipolar A/D Range	-	-	-	-
D/A Channels	-	2	-	2
D/A Resolution	-	14-bit	-	14-bit
D/A Output Range	-	$\pm 10V$	-	$\pm 10V$
DIO Channels	18	18	18	18
C/Timers (user)	2 x 24bit (TTL)	2 x 24bit (TTL)	2 x 24bit (TTL)	2 x 24bit (TTL)
Connectors	SCSI Dsub 68M (A/D, DIO & C/T)	SCSI Dsub 68M (A/D, D/A, DIO & C/T)	SCSI Dsub 68M (A/D, DIO & C/T)	SCSI Dsub 68M (A/D, D/A, DIO & C/T)

#### PCI-703-S8 ACCESSORY DIAGRAM



### Software Support

Supplied with Windows & Linux drivers  
 CD includes full WaveView software suite  
 Support for all major 3rd party applications  
 Programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



**PCI - 766-8 / 766-16 / 766-24****High Performance Analog Outputs**

 D/A     DIO     C/Timer

- **Highly accurate streaming analog outputs**
- **Up to 24 D/A channels**
- **Full waveform generation functionality**
- **100kHz simultaneous update on all D/A channels**



Model	PCI-766-8	PCI-766-16	PCI-766-24
Functions	D/A, DIO, C/Timers	D/A, DIO, C/Timers	D/A, DIO, C/Timers
A/D Channels	-	-	-
A/D Resolution	-	-	-
A/D Sampling Rate	-	-	-
Bipolar A/D Range	-	-	-
Unipolar A/D Range	-	-	-
D/A Channels	8	16	24
D/A Resolution	16bit	16bit	16bit
D/A Output Range	±10V (100kHz simultaneous update)	±10V (100kHz simultaneous update)	±10V (100kHz simultaneous update)
DIO Channels	6 (TTL) Inputs	6 (TTL) Inputs	6 (TTL) Inputs
C/Timers (user)	2 x 16bit (82C54 / TTL)	2 x 16bit (82C54 / TTL)	2 x 16bit (82C54 / TTL)
Connectors	SCSI Dsub 68M (D/A, DIO & C/T)	SCSI Dsub 68M (D/A, DIO & C/T)	SCSI Dsub 68M (D/A, DIO & C/T)



Analog Output & Digital Input  
SCSI-D68MM Cable

ADPT-6868SCD

SCSI-II 68 (F) Centronics &  
SCSI-II 68 (F) DSub to 69way  
Screw Terminal Adapter

**Software Support**

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications

Programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX

**PCI - 773-T / 773-R****Thermocouple (T/C) / RTD Temperature Input with Digital I/O**

 A/D     DIO

- **High resolution temperature inputs**
- **Support for type J, K, E, T, R, S, B & C Thermocouples**
- **Cold junction compensation (CJC) adapters supplied**
- **Individual current sources for RTD sensors**
- **Free temperature logging software provided**



Model	PCI-773-T	PCI-773-R
Functions	T/C inputs, DIO	RTD inputs & DIO
A/D Channels	16	16
A/D Resolution	14bit	14bit
A/D Sampling Rate	Polled I/O, OS	OS Dependent
Bipolar A/D Range	±80mV	±2.5V
Unipolar A/D Range	-	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	16 (TTL) Inputs & 16 (TTL) Outputs	16 (TTL) Inputs & 16 (TTL) Outputs
C/Timers (user)	-	-
Connectors	DB37M (A/D) IDC40M (DIO)	DB37M (A/D) IDC40M (DIO)



RTD adapter  
supplied



DB-37F/F cable  
supplied

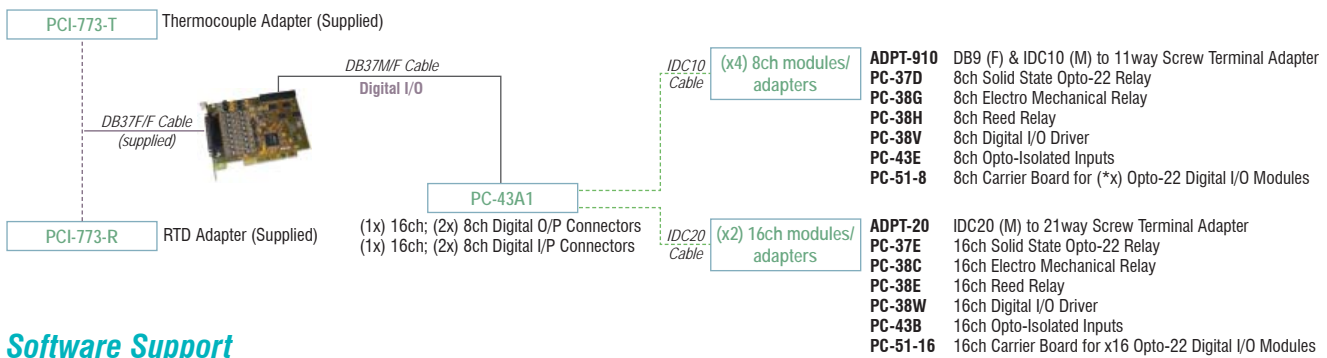


Thermocouple  
adapter supplied



IDC40 to DB37  
adapter supplied

## PCI-773 ACCESSORY DIAGRAM



## Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications

Programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



## PCI-14B

Protected Digital I/O with Counter Timers

**DIO** **C/Timer**

Model	PCI-14B
Functions	DIO, C/Timers
A/D Channels	-
A/D Resolution	-
A/D Sampling Rate	-
Bipolar A/D Range	-
Unipolar A/D Range	-
D/A Channels	-
D/A Resolution	-
D/A Output Range	-
DIO Channels	24 (TTL) Inputs & 24 (TTL) Outputs
C/Timers (user)	6 x 24bit (TTL)
Connectors	SCSI Cent 68F (CIO & C/T)

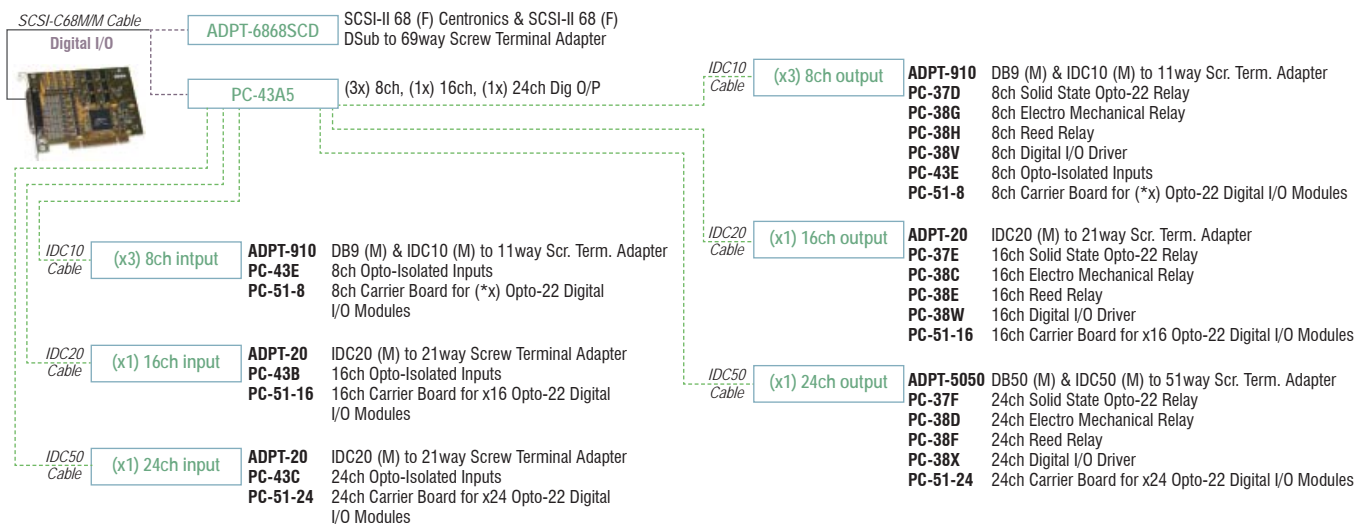
- 48x Fully protected digital I/O lines
- 6x 24-bit Counter/Timers
- Wide range of digital accessories
- Great for industrial use



## Software Support



## PCI-14B ACCESSORY DIAGRAM





**PCI -836A / 836C****Digital I/O**

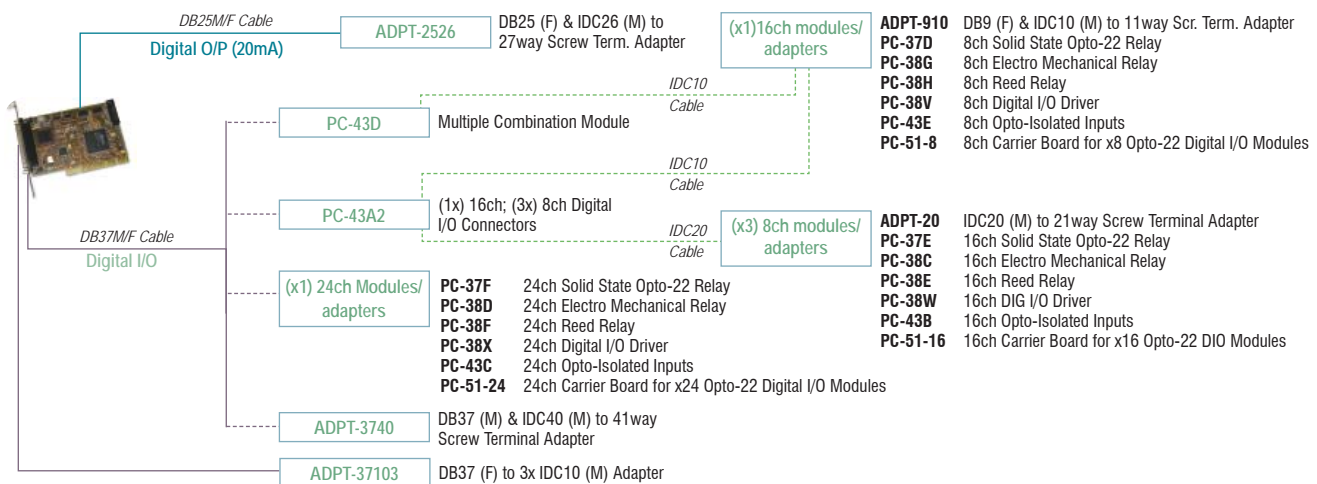
Model	PCI-836A	PCI-836C
Functions	DIO	DIO
A/D Channels	-	-
A/D Resolution	-	-
A/D Sampling Rate	-	-
Bipolar A/D Range	-	-
Unipolar A/D Range	-	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	24 (TTL)	24 (TTL) / 16 High Current Outputs / 1 Opto Isolated Input
C/Timers (user)	-	-
Connectors	DB37M (DIO), IDC20 (DIO)	DB37M (DIO), IDC20 (DIO)



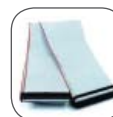
IDC20 to DB25 adapter supplied



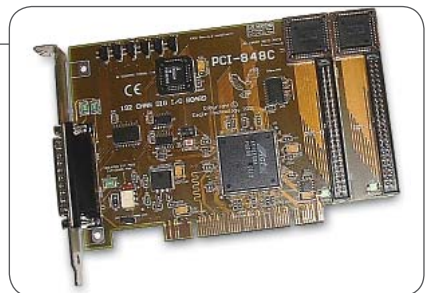
- Low cost Digital I/O
- Each port programmable as input or output

**Software Support****PCI-836 ACCESSORY DIAGRAM****PCI -848A / 848C / 896A / 896C / 8192A / 8192C****Digital I/O with Counter Times**

- Up to 192 programmable Digital I/O lines
- Optional Counter/Timers
- High reliability
- Cost effective



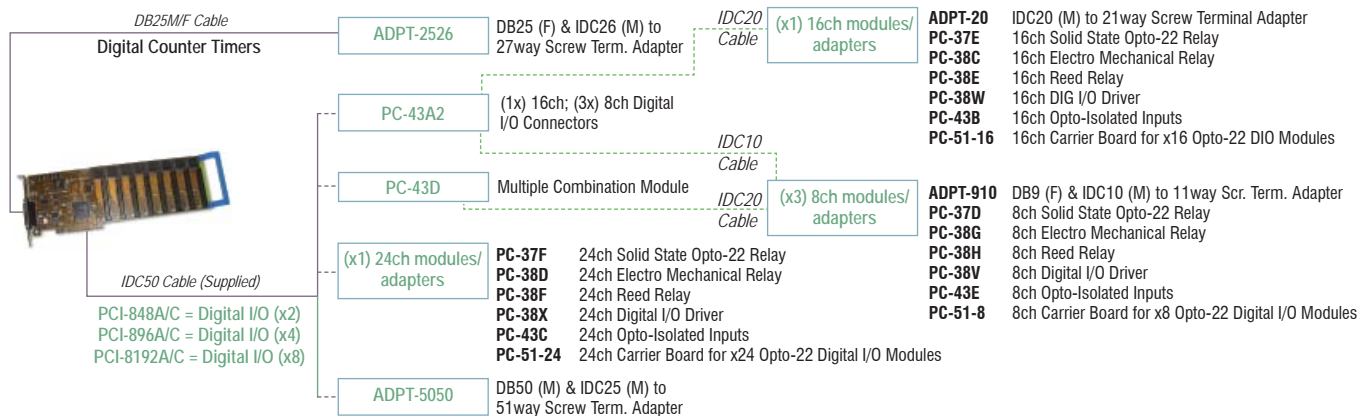
IDC50 cables supplied



Model	PCI-848A	PCI-848C	PCI-896A	PCI-896C	PCI-8192A	PCI-8192C
Functions	DIO	DIO, C/Timers	DIO	DIO, C/Timers	DIO	DIO, C/Timers
A/D Channels	-	-	-	-	-	-
A/D Resolution	-	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-	-
D/A Channels	-	-	-	-	-	-
D/A Resolution	-	-	-	-	-	-
D/A Output Range	-	-	-	-	-	-
DIO Channels	48 (TTL)	48 (TTL) 1 Opto Isolated Input	96 (TTL)	96 (TTL) 1 Opto Isolated Input	192 (TTL)	192 (TTL) 1 Opto Isolated Input
C/Timers (user)	-	3 x 16bit (82C54 / TTL)	-	3 x 16bit (82C54 / TTL)	-	3 x 16bit (82C54 / TTL)
Connectors	DB25M (DIO), 2 x IDC50 (DIO)	DB25M (DIO), 2 x IDC50 (DIO)	DB25M (DIO), 4 x IDC50 (DIO)	DB25M (DIO), 4 x IDC50 (DIO)	DB25M (DIO), 8 x IDC50 (DIO)	DB25M (DIO), 8 x IDC50 (DIO)



## PCI-848 ACCESSORY DIAGRAM



## Software Support

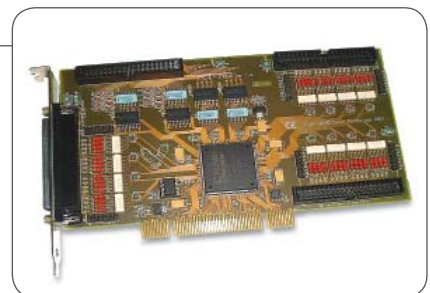


## PCI-762-16 / 762-32 / 762-48

### Digital I/O with Opto-Isolated Digital Inputs

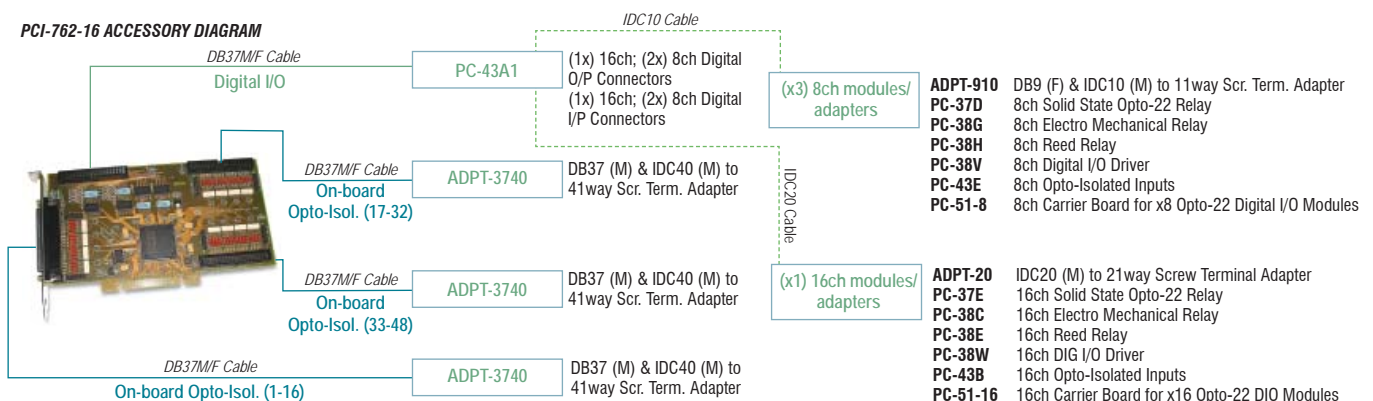


Model	PCI-762-16	PCI-762-32	PCI-762-48
Functions	DIO	DIO	DIO
A/D Channels	-	-	-
A/D Resolution	-	-	-
A/D Sampling Rate	-	-	-
Bipolar A/D Range	-	-	-
Unipolar A/D Range	-	-	-
D/A Channels	-	-	-
D/A Resolution	-	-	-
D/A Output Range	-	-	-
DIO Channels	16 Opto Isolated Inputs 16 (TTL) Inputs & 16 (TTL) Outputs	32 Opto Isolated Inputs 16 (TTL) Inputs & 16 (TTL) Outputs	48 Opto Isolated Inputs 16 (TTL) Inputs & 16 (TTL) Outputs
C/Timers (user)	-	-	-
Connectors	DB37M (DIO) IDC40 (DIO)	DB37M (DIO) 2 x IDC40 (DIO)	DB37M (DIO) 3 x IDC40 (DIO)



- Onboard Opto isolation
- Up to 48 Isolated digital inputs
- 16 TTL Digital inputs
- 16 TTL Digital outputs
- Affordable Isolated protection for your Digital I/O

## PCI-762-16 ACCESSORY DIAGRAM

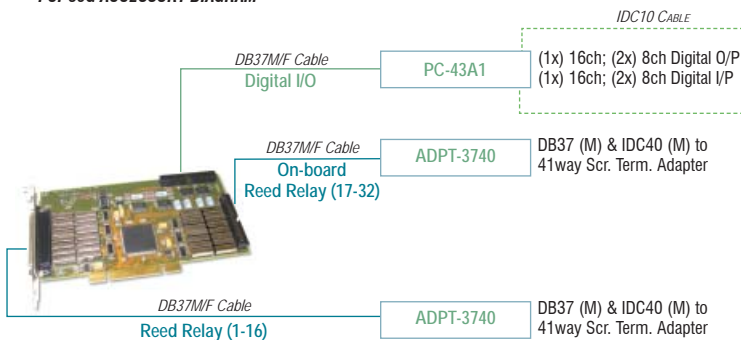
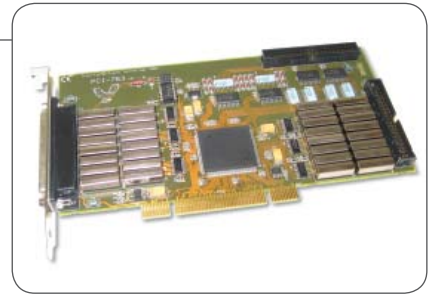


## Software Support



**PCI -763-16 / 763-32****Digital I/O with Reed Relay Digital Outputs**

Model	PCI-763-16	PCI-763-32
Functions	DIO	DIO
A/D Channels	-	-
A/D Resolution	-	-
A/D Sampling Rate	-	-
Bipolar A/D Range	-	-
Bipolar A/D Range	-	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	16 Reed Relay Outputs, 16 (TTL) Inputs & 16 (TTL) Output	32 Reed Relay Outputs, 16 (TTL) Inputs & 16 (TTL) Output
C/Timers (user)	-	-
Connectors	DB37M (DIO) IDC40 (DIO)	DB37M (DIO) 2 x IDC40 (DIO)

**PCI-30G ACCESSORY DIAGRAM**IDC40 to DB37  
adapter(s) supplied

- Perfect for signal switching applications
- Onboard general purpose Digital I/O

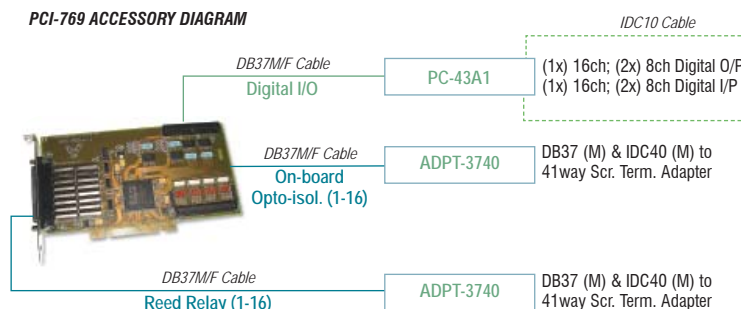
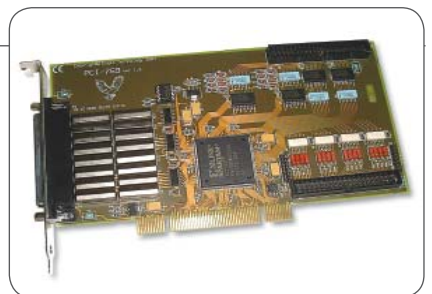
**Software Support**

**ADPT-910** DB9 (F) & IDC10 (M) to 11way Scr. Term. Adapter  
**PC-37D** 8ch Solid State Opto-22 Relay  
**PC-38G** 8ch Electro Mechanical Relay  
**PC-38H** 8ch Reed Relay  
**PC-38V** 8ch Digital I/O Driver  
**PC-43E** 8ch Opto-Isolated Inputs  
**PC-51-8** 8ch Carrier Board for x8 Opto-22 Digital I/O Modules

**ADPT-20** IDC20 (M) to 21way Screw Terminal Adapter  
**PC-37E** 16ch Solid State Opto-22 Relay  
**PC-38C** 16ch Electro Mechanical Relay  
**PC-38E** 16ch Reed Relay  
**PC-38W** 16ch DIG I/O Driver  
**PC-43B** 16ch Opto-Isolated Inputs  
**PC-51-16** 16ch Carrier Board for x16 Opto-22 DIO Modules

**PCI -769****Digital I/O with Opto-Isolated Digital Inputs & Reed Relay Digital Outputs**

Model	PCI-769
Functions	DIO
A/D Channels	-
A/D Resolution	-
A/D Sampling Rate	-
Bipolar A/D Range	-
Bipolar A/D Range	-
D/A Channels	-
D/A Resolution	-
D/A Output Range	-
DIO Channels	16 Opto Isolated Inputs & 16 Reed Relay Outputs 16 (TTL) Inputs & 16 (TTL) Outputs
C/Timers (user)	-
Connectors	DB37M (DIO) 2 x IDC40 (DIO)

**PCI-769 ACCESSORY DIAGRAM**IDC40 to DB37  
adapters supplied

- Great multi-function Digital I/O board
- The perfect multi-purpose Digital I/O board

**Software Support**

**ADPT-910** DB9 (F) & IDC10 (M) to 11way Scr. Term. Adapter  
**PC-37D** 8ch Solid State Opto-22 Relay  
**PC-38G** 8ch Electro Mechanical Relay  
**PC-38H** 8ch Reed Relay  
**PC-38V** 8ch Digital I/O Driver  
**PC-43E** 8ch Opto-Isolated Inputs  
**PC-51-8** 8ch Carrier Board for x8 Opto-22 Digital I/O Modules

**ADPT-20** IDC20 (M) to 21way Screw Terminal Adapter  
**PC-37E** 16ch Solid State Opto-22 Relay  
**PC-38C** 16ch Electro Mechanical Relay  
**PC-38E** 16ch Reed Relay  
**PC-38W** 16ch DIG I/O Driver  
**PC-43B** 16ch Opto-Isolated Inputs  
**PC-51-16** 16ch Carrier Board for x16 Opto-22 DIO Modules

## PC -104PLUS-30C / 104PLUS-30I

### Multi-function DAQ

 A/D
  D/A
  DIO
  C/Timer



Supplied with PC/104 Mounting Kit,  
IDC26 and IDC40 (pitch = 2mm)  
Ribbon Cables

### Extended temperature range

- Intended for industrial & military use
- Extended temperature range
- Extremely reliable
- High performance

Model	PC104PLUS-30C	PC104PLUS-30I (Extended Temperature Range)
Functions	A/D, D/A, DIO, C/Timers	A/D, D/A, DIO, C/Timers
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF
A/D Resolution	14bit	14bit
A/D Sampling Rate	100kHz	100kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V	±10V, ±5V, ±2.5V
Unipolar A/D Range	-	-
D/A Channels	4	4
D/A Resolution	14bit	14bit
D/A Output Range	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)
C/Timers (user)	3 x 16bit (82C54 / TTL)	3 x 16bit (82C54 / TTL)
Connectors	IDC26 (A/D, D/A) IDC40 (DIO)	IDC26 (A/D, D/A) IDC40 (DIO)

### Software



## PC -104PLUS-69

### Opto-Isolated Digital Inputs & Reed Relay Digital Outputs

 DIO

- Highly compact relays & opto isolation
- Perfect for multi purpose digital applications
- Cost effective solution



Supplied with PC/104 Mounting Kit,  
and IDC40 (pitch = 2mm)  
Ribbon Cable

Model	PC104PLUS-69
Functions	DIO
A/D Channels	-
A/D Resolution	-
A/D Sampling Rate	-
Bipolar A/D Range	-
Unipolar A/D Range	-
D/A Channels	-
D/A Resolution	-
D/A Output Range	-
DIO Channels	16 Opto Isolated Inputs & 16 Reed Relay Outputs
C/Timers (user)	-
Connectors	IDC40 (DIO)

### Software Support



EAGLE Technology has a huge range of cables and accessories available for our data acquisition products. Be sure to check out the accessories section on page 41 of this catalogue.





**PC104-30G / 30GA / 30F / 30FA****Multi-function DAQ**

Supplied with PC/104 Mounting Kit,  
IDC26-1 and IDC40 (pitch = 2mm)  
Ribbon Cables

- **Highly versatile feature set**
- **Robust reliable design**
- **Competitive pricing**
- **Excellent support**

Model	PC104-30G	PC104-30GA	PC104-30F	PC104-30FA
Functions	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	16 SE or 8 DIFF	16 SE or 8 DIFF
A/D Resolution	12bit	12bit	12bit	12bit
A/D Sampling Rate	100kHz	100kHz	330kHz	330kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 10mV$ , $\pm 5mV$	$\pm 10V$ , $\pm 5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 10mV$ , $\pm 5mV$	$\pm 10V$ , $\pm 5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 10mV$ , $\pm 5mV$	$\pm 10V$ , $\pm 5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 10mV$ , $\pm 5mV$
Unipolar A/D Range	0-10V, 0-1V, 0-100mV, 0-10mV	0-10V, 0-1V, 0-100mV, 0-10mV	0-10V, 0-1V, 0-100mV, 0-10mV	0-10V, 0-1V, 0-100mV, 0-10mV
D/A Channels	-	4	-	4
D/A Resolution	-	12bit	-	12bit
D/A Output Range	-	$\pm 10V$	-	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	1 x 16bit (TTL)	1 x 16bit (TTL)	1 x 16bit (TTL)	1 x 16bit (TTL)
Connectors	IDC26 (A/D) IDC40M (DIO & C/T)	IDC26 (A/D, D/A) IDC40M (DIO & C/T)	IDC26 (A/D) IDC40M (DIO & C/T)	IDC26 (A/D, D/A) IDC40M (DIO & C/T)

**Software Support****PC104-30H****High Speed Analog Input**

Model	PC104-30H
Functions	A/D
A/D Channels	1
A/D Resolution	12bit
A/D Sampling Rate	833kHz
Bipolar A/D Range	$\pm 5V$
Unipolar A/D Range	1
D/A Channels	-
D/A Resolution	-
D/A Output Range	-
DIO Channels	-
C/Timers (user)	-
Connectors	SIP-3M (A/D)



Supplied with PC104  
Mounting Kit and SIP-3M  
Connector

- **Very high speed A/D**
- **Low noise design**

**Software Support****PC104-72A****Digital I/O**

Model	PC104-72A
Functions	DIO
A/D Channels	-
A/D Resolution	-
A/D Sampling Rate	-
Bipolar A/D Range	-
Unipolar A/D Range	-
D/A Channels	-
D/A Resolution	-
D/A Output Range	-
DIO Channels	72 (TTL)
C/Timers (user)	-
Connectors	IDC50 (DIO) IDC40 (DIO)

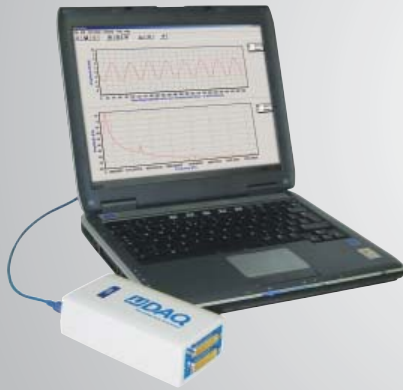


Supplied with PC/104 Mounting Kit,  
IDC40 and IDC50 Ribbon Cables

- **Programmable Digital I/O**
- **Proven design**
- **Easy integration**







The MicroDAQ product line features a modular design allowing for a large number of product variations, while keeping the interface, enclosure and connectors standard.

These key design points coupled with the portable plug & play nature of the MicroDAQ make the range extremely versatile and easy to integrate. Thanks to the standardization of connectors and pin-outs, the accessory diagram below applies to the entire MicroDAQ range.

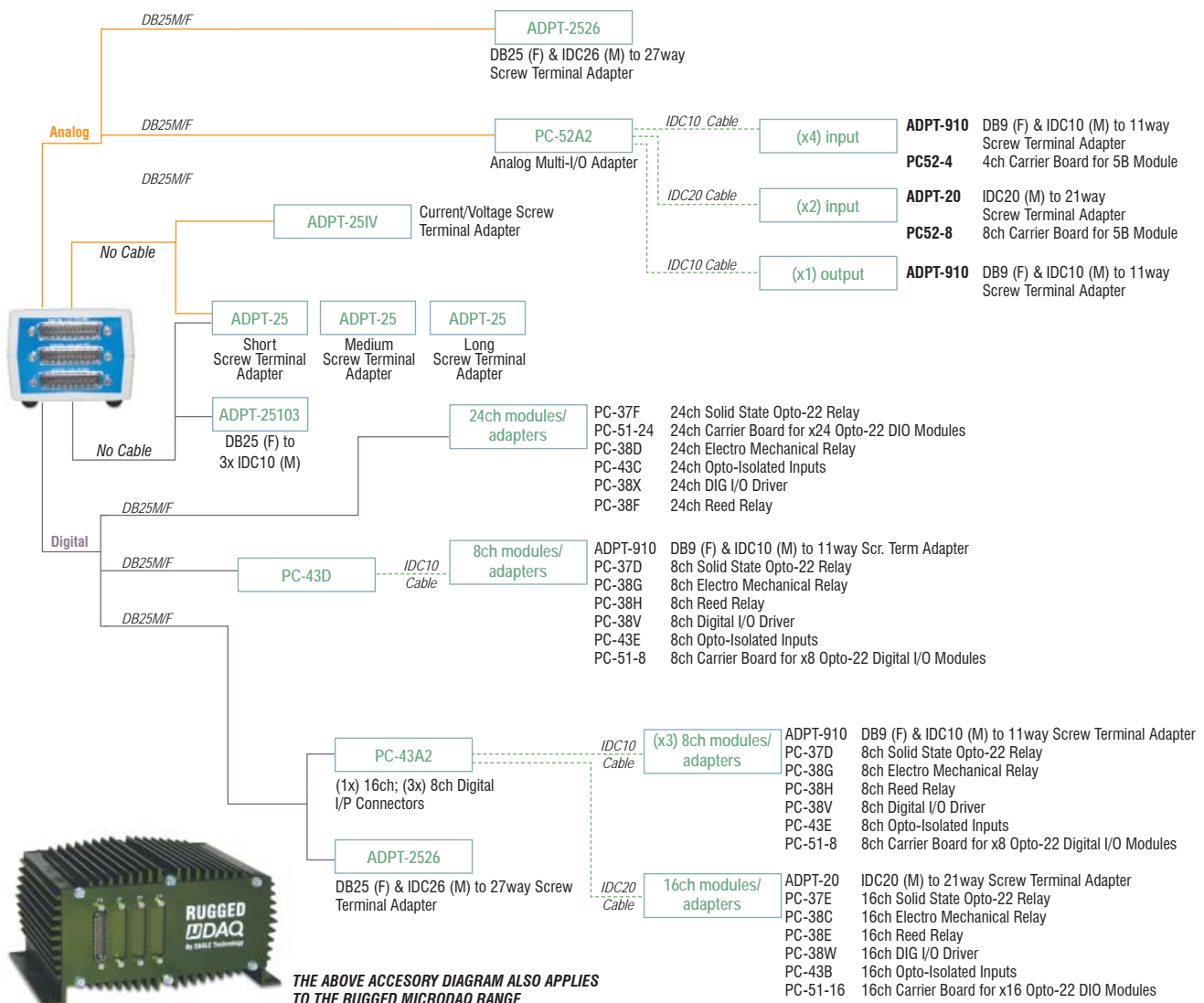
- **Extremely versatile portable design**
- **Plug & play interfaces such as USB make installation quick and easy**
- **Huge product range with a wide variety of feature sets**
- **Quick and painless integration**
- **Ruggedised versions for industrial use**
- **Perfectly suited to integration, Field and Lab use**
- **Dimensions (height x width x length):**

**MicroDAQ-Lite:** 35mm x 80mm x 148mm

**2 Tier MicroDAQ:** 45mm x 80mm x 148mm

**3 Tier MicroDAQ:** 60mm x 80mm x 148mm

**BNC MicroDAQ:** 85mm x 80mm x 148mm



### 3 MicroDAQ USB Data Acquisition

#### USB-24A / 72A / 120A / 48C / 96C

##### Digital I/O with Counter Timers



- Up to 120 lines of programmable Digital I/O
- Optional Counter/Timers with interrupts
- Wide range of digital accessory modules available



USB cable supplied



Power supply supplied  
(except with USB-24A & USB-72A which are USB bus powered)



Model	USB-24A	USB-72A	USB-120A	USB-48C	USB-96C
Functions	DIO	DIO	DIO	DIO C/Timers	DIO C/Timers
A/D Channels	-	-	-	-	-
A/D Resolution	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	72 (TTL)	120 (TTL)	48 (TTL)	96 (TTL)
C/Timers (user)	-	-	-	6 x 16bit (82C54 / TTL)	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO & C/T)	DB25 (DIO & C/T)

\* For compatible accessories see table on p11

#### Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications

Programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



DASY Lab

#### USB-62-16 / 62-32 / 63-16 / 63-32 / 69-16 / 69-32

##### Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs



- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more
- Perfect multi-function Digital I/O device



USB cable supplied



Power supply supplied



Model	USB-62-16	USB-62-32	USB-63-16	USB-63-32	USB-69-16	USB-69-32
Functions	DIO	DIO	DIO	DIO	DIO	DIO
A/D Channels	-	-	-	-	-	-
A/D Resolution	-	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-	-
D/A Channels	-	-	-	-	-	-
D/A Resolution	-	-	-	-	-	-
D/A Output Range	-	-	-	-	-	-
DIO Channels	24 (TTL) 16 Opto-Isolated Inputs	24 (TTL) 32 Opto-Isolated Inputs	24 (TTL) 16 Reed Relay Outputs	24 (TTL) 32 Reed Relay Outputs	24 (TTL) 8 Opto-Isolated Inputs 8 Reed Relay Outputs	24 (TTL) 16 Opto-Isolated Inputs 16 Reed Relay Outputs
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11

#### Software Support



DASY Lab

## MicroDAQ-LITE

### Low cost multi-function DAQ

 A/D  D/A  DIO  C/Timer

- Great low cost solution for small projects
- Onboard screw terminals for quick & easy connections
- Perfect for university and school laboratory use
- Completely USB bus powered, no external power supply required

Model	uDAQLITE
Functions	A/D, D/A, DIO, C/Timers
A/D Channels	8 SE or 4 DIFF
A/D Resolution	12bit
A/D Sampling Rate	49kHz
Bipolar A/D Range	±10V
Unipolar A/D Range	-
D/A Channels	2
D/A Resolution	12bit
D/A Output Range	±10V
DIO Channels	8x (TTL) Inputs & 8x (TTL) Outputs
C/Timers (user)	1 x 16bit (TTL)
Connectors	Onboard Screw-terminals



USB cable supplied



MicroDAQ screwdriver supplied




### Software Support



## USB-26A16 / 26B16 / 26C16 / 26C32 / 26D16 / 26D32

### Basic Multi-function DAQ

 A/D  DIO

- Basic all-round analog & digital features
- Sample rates up to 1.0MHz
- 14-bit and high resolution 16-bit A/D



USB cable supplied



Power supply supplied



Model	USB-26A16	USB-26B16	USB-26C16	USB-26C32	USB-26D16	USB-26D32
Functions	A/D, DIO	A/D, DIO	A/D, DIO	A/D, DIO	A/D, DIO	A/D, DIO
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF
A/D Resolution	14bit	14bit	16bit	16bit	16bit	16bit
A/D Sampling Rate	250kHz	400kHz	250kHz	250kHz	1.0MHz	1.0MHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV	±10V	±10V	±5V	±5V
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-	-	-
D/A Channels	-	-	-	-	-	-
D/A Resolution	-	-	-	-	-	-
D/A Output Range	-	-	-	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)

\* For compatible accessories see table on page 11

### Software Support





### 3 MicroDAQ USB Data Acquisition

#### USB-30A16 / 30B16 / 30C16 / 30C32 / 30D16 / 30D32

##### Multi-function DAQ

 A/D  D/A  DIO

- Full featured Analog & Digital I/O
- Fantastic performance and value for money
- Huge range of accessories save you time and money



USB cable supplied



Power supply supplied



Model	USB-30A16	USB-30B16	USB-30C16	USB-30C32	USB-30D16	USB-30D32
Functions	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF
A/D Resolution	14bit	14bit	16bit	16bit	16bit	16bit
A/D Sampling Rate	250kHz	400kHz	250kHz	250kHz	1.0MHz	1.0MHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$	$\pm 10V$	$\pm 5V$	$\pm 5V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-	-	-
D/A Channels	4	4	4	4	4	4
D/A Resolution	14bit	14bit	16bit	16bit	16bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)

\* For compatible accessories see table on page 11

##### Software Support



#### USB-26A16-BNC / 26B16-BNC / 26C16-BNC / 26D16-BNC

##### Basic Multi-function DAQ with BNC Connectors

 A/D  DIO

- BNC connectors integrated onto chassis
- Perfect for lab use and experiments
- Quickly and easily connect your sensors without any hassle



USB cable supplied



Power supply supplied



Model	USB-26A16-BNC	USB-26B16-BNC	USB-26C16-BNC	USB-26D16-BNC
Functions	A/D, DIO	A/D, DIO	A/D, DIO	A/D, DIO
A/D Channels	8 DIFF	8 DIFF	8 DIFF	8 DIFF
A/D Resolution	14bit	14bit	16bit	16bit
A/D Sampling Rate	250kHz	400kHz	250kHz	1.0MHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$	$\pm 5V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	-	-	-	-
D/A Resolution	-	-	-	-
D/A Output Range	-	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	8xBNC (A/D) DB25M (DIO)	8xBNC (A/D) DB25M (DIO)	8xBNC (A/D) DB25M (DIO)	8xBNC (A/D) DB25M (DIO)

\* For compatible accessories see table on page 11

##### Software Support





## USB-30A16-BNC / 30B16-BNC / 30C16-BNC / 30D16-BNC

### Multi-function DAQ with BNC Connectors

 A/D  D/A  DIO

- Complete feature set for lab and field use
- Onboard BNC connectors remove the need for custom cables
- Wide range of Digital I/O accessory modules available



USB cable supplied



Power supply supplied



### Software Support



Model	USB-30A16-BNC	USB-30B16-BNC	USB-30C16-BNC	USB-30D16-BNC
Functions	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO
A/D Channels	8 DIFF	8 DIFF	8 DIFF	8 DIFF
A/D Resolution	14bit	14bit	16bit	16bit
A/D Sampling Rate	250kHz	400kHz	250kHz	1.0MHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV	±10V	±5V
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4	4
D/A Resolution	14bit	14bit	16bit	16bit
D/A Output Range	±10V	±10V	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	8xBNC (A/D), DB9 (D/A), DB25M (DIO)	8xBNC (A/D), DB9 (D/A), DB25M (DIO)	8xBNC (A/D), DB9 (D/A), DB25M (DIO)	8xBNC (A/D), DB9 (D/A), DB25M (DIO)

\* For compatible accessories see table on p11

## USB-73T8 / 73T16 / 73T32 / 73R16 / 73R32

### Thermocouple (T/C) / RTD Temperature Inputs with Digital I/O

 A/D  DIO



T/C Adapter Supplied



RTD Adapter & DB25M/F cable supplied



USB cable supplied



Power supply supplied



- Support for type J, K, E, T, R, S, B & C Thermocouples
- Cold junction compensation (CJC) for Thermocouples
- Support for 3-wire and 4-wire RTD sensors
- Individual current sources for RTD sensors
- Free temperature logging software provided

Model	USB-73T8	USB-73T16	USB-73T32	USB-73R16	USB-73R32
Functions	T/C, DIO	T/C, DIO	T/C, DIO	RTD, DIO	RTD, DIO
A/D Channels	8 T/C	16 T/C	32 T/C	16 RTD	32 RTD
A/D Resolution	14bit	14bit	14bit	14bit	14bit
Bipolar A/D Range	± 75mV T/C Range	± 75mV T/C Range	± 75mV T/C Range	± 2.5V RTD Range	± 2.5V RTD Range
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-
Connectors	DB25M (T/C), DB25M (DIO)	DB25M (T/C), DB25M (DIO)	DB25M (T/C), DB25M (DIO)	DB25M (RTD), DB25M (DIO)	DB25M (RTD), DB25M (DIO)

\* For compatible accessories see table on page 11

### Software Support



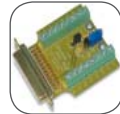
### 3 MicroDAQ USB Data Acquisition

#### USB-30A16-73T16 / 30B16-73T16 / 30C16-73T16 / 30D16-73T16

##### Hybrid Multi-function DAQ with Thermocouple (T/C) Inputs

 A/D  D/A  DIO

- Hybrid feature set makes this the ultimate multi-function DAQ device
- Support for type J, K, E, T, R, S, B & C Thermocouples



T/C Adapter Supplied



USB cable supplied



Power supply supplied



Model	USB-30A16-73T16	USB-30B16-73T16	USB-30C16-73T16	USB-30D16-73T16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C
A/D Channels	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 T/C
A/D Resolution	14bit (14-bit T/C resolution)	14bit (14-bit T/C resolution)	16bit (14-bit T/C resolution)	16bit (14-bit T/C resolution)
A/D Sampling Rate	250kHz	400kHz	250kHz	1.0MHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , ( $\pm 75mV$ T/C Range)	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , ( $\pm 75mV$ T/C Range)	$\pm 10V$ , ( $\pm 75mV$ T/C Range)	$\pm 5V$ , ( $\pm 75mV$ T/C Range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4	4
D/A Resolution	14bit	14bit	16bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)

\* For compatible accessories see table on page 11

#### Software Support



#### USB-30A16-73R16 / 30B16-73R16 / 30C16-73R16 / 30D16-73R16

##### Hybrid Multi-function DAQ with RTD Inputs

 A/D  D/A  DIO

- Same great features all combined into one device
- Support for 3-wire and 4-wire RTD sensors



RTD Adapter & DB25M/F cable supplied



USB cable supplied



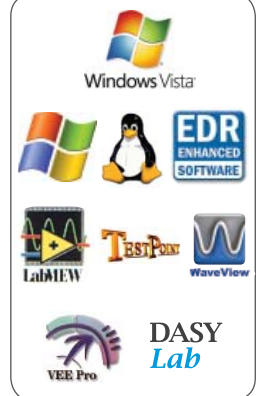
Power supply supplied



Model	USB-30A16-73R16	USB-30B16-73R16	USB-30C16-73R16	USB-30D16-73R16
Functions	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 16 RTD	16 SE or 8 DIFF & 16 RTD	16 SE or 8 DIFF & 16 RTD	16 SE or 8 DIFF & 16 RTD
A/D Resolution	14bit (14-bit RTD resolution)	14bit (14-bit RTD resolution)	16bit (14-bit RTD resolution)	16bit (14-bit RTD resolution)
A/D Sampling Rate	250kHz	400kHz	250kHz	1.0MHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , ( $\pm 2.5V$ RTD Range)	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , ( $\pm 2.5V$ RTD Range)	$\pm 10V$ , ( $\pm 2.5V$ RTD Range)	$\pm 5V$ ( $\pm 2.5V$ RTD Range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-
D/A Channels	4	4	4	4
D/A Resolution	14bit	14bit	16bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)

\* For compatible accessories see table on page 11

#### Software Support



## NET-24A / 72A / 120A / 48C / 96C

### Digital I/O with Counter Timers

 DIO  C/Timer

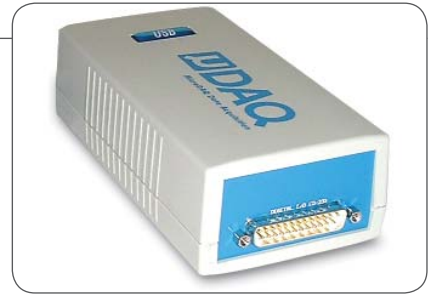
- Up to 120 lines of programmable Digital I/O
- Optional Counter/Timers with interrupts
- Wide range of digital accessory modules available



Ethernet cable supplied



Power supply supplied



### Software Support



Model	NET-24A	NET-72A	NET-120A	NET-48C	NET-96C
Functions	DIO	DIO	DIO	DIO, C/Timers	DIO, C/Timers
A/D Channels	-	-	-	-	-
A/D Resolution	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	72 (TTL)	120 (TTL)	48 (TTL)	96 (TTL)
C/Timers (user)	-	-	-	6 x 16bit (82C54 / TTL)	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO & C/T)	DB25 (DIO & C/T)

\* For compatible accessories see table on page 11

## NET-62-16 / 62-32 / 63-16 / 63-32 / 69-16 / 69-32

### Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs

 DIO

- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more
- Perfect multi-function Digital I/O device



Ethernet cable supplied



Power supply supplied



Model	NET-62-16	NET-62-32	NET-63-16	NET-63-32	NET-69-16	NET-69-32
Functions	DIO	DIO	DIO	DIO	DIO	DIO
A/D Channels	-	-	-	-	-	-
A/D Resolution	-	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-	-
D/A Channels	-	-	-	-	-	-
D/A Resolution	-	-	-	-	-	-
D/A Output Range	-	-	-	-	-	-
DIO Channels	24 (TTL) 16 Opto-Isolated Inputs	24 (TTL) 32 Opto-Isolated Inputs	24 (TTL) 16 Reed Relay Outputs	24 (TTL) 32 Reed Relay Outputs	24 (TTL) 8 Opto-Isolated Inputs 8 Reed Relay Outputs	24 (TTL) 16 Opto-Isolated Inputs 16 Reed Relay Outputs
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11

### Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications

Programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX





**NET-26C16 / 26C32 / 30C16 / 30C32****Multi-function DAQ**

 A/D     D/A     DIO

- 14-bit and high resolution 16-bit A/D
- Full featured Analog & Digital I/O
- No network programming knowledge or experience required



Ethernet cable supplied



Power supply supplied

**Software Support**

Model	NET-26C16	NET-26C32	NET-30C16	NET-30C32
Functions	A/D, DIO	A/D, DIO	A/D, D/A, DIO	A/D, D/A, DIO
A/D Channels	16 SE or 8 DIFF	32 SE or 16 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF
A/D Resolution	16bit	16bit	16bit	16bit
A/D Sampling Rate	250kHz	250kHz	250kHz	250kHz
Bipolar A/D Range	±10V	±10V	±10V	±10V
Unipolar A/D Range	-	-	-	-
D/A Channels	-	-	4	4
D/A Resolution	-	-	16bit	16bit
D/A Output Range	-	-	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)

\* For compatible accessories see table on page 11

**NET-26C16-BNC / 30C16-BNC****Multi-function DAQ with BNC Connectors**

 A/D     DIO

- No network programming knowledge or experience required
- BNC connectors integrated onto chassis
- Perfect for lab use and experiments
- Wide range if Digital I/O accessory modules available

Model	NET-26C16-BNC	NET-30C16-BNC
Functions	A/D, DIO	A/D, D/A, DIO
A/D Channels	8 DIFF	8 DIFF
A/D Resolution	16bit	16bit
A/D Sampling Rate	250kHz	250kHz
Bipolar A/D Range	±10V	±10V
Unipolar A/D Range	-	-
D/A Channels	-	4
D/A Resolution	-	16bit
D/A Output Range	-	±10V
DIO Channels	24 (TTL)	24 (TTL)
C/Timers (user)	-	-
Connectors	8xBNC (A/D), DB25M (DIO)	8xBNC (A/D), DB9 (D/A) DB25M (DIO)

\* For compatible accessories see table on page 11

**Software Support**

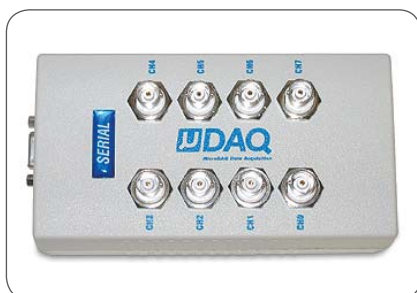
Supplied with Windows & Linux drivers  
CD includes full WaveView software suite  
Support for all major 3rd party applications  
Programming support for Visual C#, Visual C/C++,  
Visual Basic, VB.NET, Delphi, Java & ActiveX



Power supply supplied



Ethernet cable supplied





## NET-73T8 / 73T16 / 73T32 / 73R16 / 73R32

Thermocouple (T/C) / RTD Temperature Input with Digital I/O

 A/D  DIO

- Support for type J, K, E, T, R, S, B & C Thermocouples
- Cold junction compensation (CJC) for Thermocouples
- Support for 3-wire and 4-wire RTD sensors
- Individual current sources for RTD sensors
- Free temperature logging software provided

Model	NET-73T8	NET-73T16	NET-73T32	NET-73R16	NET-73R32
Functions	T/C, DIO	T/C, DIO	T/C, DIO	RTD, DIO	RTD, DIO
A/D Channels	8 T/C	16 T/C	32 T/C	16 RTD	32 RTD
A/D Resolution	14bit	14bit	14bit	14bit	14bit
Bipolar A/D Range	±75mV T/C Range	±75mV T/C Range	±75mV T/C Range	±2.5V RTD Range	±2.5V RTD Range
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-
Connectors	DB25M (T/C) DB25M (DIO)	DB25M (T/C) DB25M (DIO)	DB25M (T/C) DB25M (DIO)	DB25M (RTD) DB25M (DIO)	DB25M (RTD) DB25M (DIO)

\* For compatible accessories see table on page 11

### Software Support



## NET-30C16-73T16 / 30C16-73R16

Hybrid Multi-function DAQ with Thermocouple (T/C) / RTD Inputs

 A/D  D/A  DIO

- Hybrid feature set makes this the ultimate multi-function DAQ device
- No network programming knowledge or experience required
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Support for 3-wire and 4-wire RTD sensors
- Free temperature logging software provided

Model	NET-30C16-73T16	NET-30C16-73R16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 RTD
A/D Resolution	16bit (14-bit T/C resolution)	16bit (14-bit RTD resolution)
A/D Sampling Rate	250kHz	250kHz
Bipolar A/D Range	±10V, ±75mV T/C Range	±10V, ±2.5V RTD Range
Unipolar A/D Range	-	-
D/A Channels	4	4
D/A Resolution	16bit	16bit
D/A Output Range	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)
C/Timers (user)	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)

\* For compatible accessories see table on page 11



Ethernet cable supplied



Power supply supplied



T/C Adapter Supplied



RTD Adapter & DB25M/F cable supplied



Ethernet cable supplied



Power supply supplied



Thermocouple adapter supplied



RTD Adapter & DB25M/F cable supplied

### Software Support



All serial MicroDAQ products are available with either RS232 or RS485 interface options.  
Please specify at the time of ordering by adding a 'RS232' or 'RS485' suffix to the end of the part number.  
Examples: SRL-30A16-RS232  
SRL-96C-RS485

## SRL-24A / 72A / 120A / 48C / 96C

### Digital I/O with Counter Timers



- Up to 120 lines of programmable Digital I/O
- Optional Counter/Timers
- Wide range of digital accessory modules available
- RS232 and RS485 versions available



Power supply  
supplied



Model	SRL-24A	SRL-72A	SRL-120A	SRL-48C	SRL-96C
Functions	DIO	DIO	DIO	DIO, C/Timers	DIO, C/Timers
A/D Channels	-	-	-	-	-
A/D Resolution	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	72 (TTL)	120 (TTL)	48 (TTL)	96 (TTL)
C/Timers (user)	-	-	-	6 x 16bit (82C54 / TTL)	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO & C/T)	DB25 (DIO & C/T)

\* For compatible accessories see table on page 11

### Software Support



Screw terminal  
adapter supplied for  
RS485 models



Serial cable  
supplied for  
RS232 models

## SRL-62-16 / 62-32 / 63-16 / 63-32 / 69-16 / 69-32

### Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs



- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more
- Perfect multi-function Digital I/O device
- RS232 and RS485 versions available



Power supply  
supplied



Model	SRL-62-16	SRL-62-32	SRL-63-16	SRL-63-32	SRL-69-16	SRL-69-32
Functions	DIO	DIO	DIO	DIO	DIO	DIO
A/D Channels	-	-	-	-	-	-
A/D Resolution	-	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-	-
D/A Channels	-	-	-	-	-	-
D/A Resolution	-	-	-	-	-	-
D/A Output Range	-	-	-	-	-	-
DIO Channels	24 (TTL) 16 Opto-Isolated Inputs	24 (TTL) 32 Opto-Isolated Inputs	24 (TTL) 16 Reed Relay Outputs	24 (TTL) 32 Reed Relay Outputs	24 (TTL) 8 Opto-Isolated Inputs 8 Reed Relay Outputs	24 (TTL) 16 Opto-Isolated Inputs 16 Reed Relay Outputs
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11



Screw terminal  
adapter supplied for  
RS485 models



Serial cable  
supplied for  
RS232 models

## SRL-26A16 / 26C16 / 26C32

### Basic Multi-function DAQ

 A/D  DIO

- Basic all-round analog & digital features
- 14-bit and high resolution 16-bit A/D
- RS232 and RS485 versions available



Screw terminal adapter supplied for RS485 models



Serial cable supplied for RS232 models



Power supply supplied



### Software Support



Model	SRL-26A16	SRL-26C16	SRL-26C32
Functions	A/D, DIO	A/D, DIO	A/D, DIO
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF
A/D Resolution	14bit	16bit	16bit
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$	$\pm 10V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	-	-	-
D/A Resolution	-	-	-
D/A Output Range	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D), DB25M (DIO)	DB25M (A/D), DB25M (DIO)	DB25M (A/D), DB25M (DIO)

\* For compatible accessories see table on page 11

## SRL-30A16 / 30C16 / 30C32

### Multi-function DAQ

 A/D  D/A  DIO

- Full featured Analog & Digital I/O
- Great value for money
- Huge range of accessories save you time and money
- RS232 and RS485 versions available



Screw terminal adapter supplied for RS485 models



Serial cable supplied for RS232 models



Power supply supplied



### Software Support



Model	SRL-30A16	SRL-30C16	SRL-30C32
Functions	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF
A/D Resolution	14bit	16bit	16bit
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$	$\pm 10V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4
D/A Resolution	14bit	16bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)

\* For compatible accessories see table on p11

### Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications and programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



## 5 MicroDAQ Serial Data Acquisition

### SRL-26A16-BNC / 26C16-BNC / 30A16-BNC / 30C16-BNC

#### Multi-function DAQ with BNC Connectors

 A/D  DIO

- BNC connectors integrated onto chassis
- Perfect for lab use and experiments
- RS232 and RS485 versions available



Screw terminal adapter supplied for RS485 models



Serial cable supplied for RS232 models



Power supply supplied



Model	SRL-26A16-BNC	SRL-26C16-BNC	SRL-30A16-BNC	SRL-30C16-BNC
Functions	A/D, DIO	A/D, DIO	A/D, D/A, DIO	A/D, D/A, DIO
A/D Channels	8 DIFF	8 DIFF	8 DIFF	8 DIFF
A/D Resolution	14bit	16bit	14bit	16bit
A/D Sampling Rate	3kHz	3kHz	3kHz	3kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-
D/A Channels	-	-	4	4
D/A Resolution	-	-	14bit	16bit
D/A Output Range	-	-	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	8xBNC (A/D), DB25M (DIO)	8xBNC (A/D), DB25M (DIO)	8xBNC (A/D), DB9 (D/A), DB25M (DIO)	8xBNC (A/D), DB9 (D/A), DB25M (DIO)

\* For compatible accessories see table on page 11

#### Software Support



### SRL-73T8 / 73T16 / 73T32 / 73R16 / 73R32

#### Thermocouple (T/C) / RTD Temperature Input with Digital I/O

 A/D  DIO

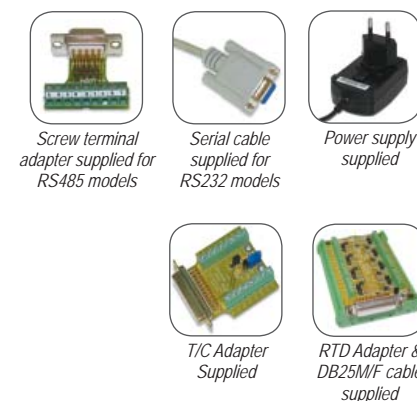
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Support for 3-wire and 4-wire RTD sensors
- Free temperature logging software provided



Model	SRL-73T8	SRL-73T16	SRL-73T32	SRL-73R16	SRL-73R32
Functions	T/C, DIO	T/C, DIO	T/C, DIO	RTD, DIO	RTD, DIO
A/D Channels	8 T/C	16 T/C	32 T/C	16 RTD	32 RTD
A/D Resolution	14bit	14bit	14bit	14bit	14bit
Bipolar A/D Range	$\pm 75mV$ T/C Range	$\pm 75mV$ T/C Range	$\pm 75mV$ T/C Range	$\pm 2.5V$ RTD Range	$\pm 2.5V$ RTD Range
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-
Connectors	DB25M (T/C) DB25M (DIO)	DB25M (T/C) DB25M (DIO)	DB25M (T/C) DB25M (DIO)	DB25M (RTD) DB25M (DIO)	DB25M (RTD) DB25M (DIO)

\* For compatible accessories see table on page 11

#### Software Support





## SRL-30A16-73T16 / 30C16-73T16 / 30A16-73R16 / 30C16-73R16

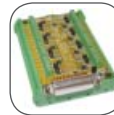
### Hybrid Multi-function DAQ with Thermocouple (T/C) / RTD Inputs

 A/D  D/A  DIO

- Hybrid feature set makes this the ultimate multi-function DAQ device
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Support for 3-wire and 4-wire RTD sensors
- Free temperature logging software provided
- RS232 and RS485 versions available



T/C Adapter  
Supplied



RTD Adapter &  
DB25M/F cable  
supplied



Screw terminal  
adapter supplied for  
RS485 models



Serial cable  
supplied for  
RS232 models



Power supply  
supplied

Model	SRL-30A16-73T16	SRL-30C16-73T16	SRL-30A16-73R16	SRL-30C16-73R16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 RTD	16 SE or 8 DIFF & 16 RTD
A/D Resolution	14bit (14-bit T/C resolution)	16bit (14-bit RTD resolution)	14bit (14-bit RTD resolution)	16bit (14-bit RTD resolution)
A/D Sampling Rate	3kHz	3kHz	3kHz	3kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±75mV T/C Range)	±10V, (±75mV T/C Range)	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±2.5mV RTD Range)	±10V, (±2.5mV RTD Range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-
D/A Channels	4	4	4	4
D/A Resolution	14bit	16bit	14bit	16bit
D/A Output Range	±10V	±10V	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)

\* For compatible accessories see table on page 11

### Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications and programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



### MODBUS for Serial MicroDAQ

Eagle Technology is proud to announce the release of it's Modbus Support for all MicroDAQ serial data acquisition products.

#### Features

- Open source Protocol
- Easy to implement
- Communicate to our Daq Devices from any Mosbus Compliant Device

Modbus is communication standard developed in the late 1970's by Modicon. It has become the de-facto standard for the industrial instrumentation and control market. Utilising a master/slave format, the protocol involves sending serial packets from a master device to a slave device. This action uses the Modbus-RTU protocol.

All serial MicroDAQ products can now be ordered with integrated modbus firmware. This allows the unit to act as a slave device and communicate using the Modbus-RTU protocol. One is able to interface from the slave device to a PC acting as a master device or to any other Modbus-compliant device such as a PLC. The master can address individual slaves, or can initiate a broadcast message to all slaves.

MicroDAQ devices are fitted with either RS232 or RS485 serial interfaces and are available with different analogue or digital i/o options. These include 16 or 32 analog inputs 16-bit with 4 analog outputs 16-bit, 24~120 DIO lines as well as up to 6 counter/timers.

We plan to implement Modbus TCP/IP for all our ethernet network devices in the near future.

# 6 MicroDAQ Wireless Data Acquisition

The wireless MicroDAQ range uses a Bluetooth wireless link and has a maximum range of 10 Meters

## BT-24A / 72A / 120A / 48C / 96C

### Digital I/O with Counter Timers



- Up to 120 lines of programmable Digital I/O
- Optional Counter/Timers
- Wide range of digital accessory modules available
- USB to Bluetooth wireless adapter included
- Great for lab use or in hazardous environments



USB Bluetooth dongle supplied



Power supply supplied



Bluetooth antenna supplied



### Software Support



Model	BT-24A	BT-72A	BT-120A	BT-48C	BT-96C
Functions	DIO	DIO	DIO	DIO, C/Timer	DIO, C/Timer
A/D Channels	-	-	-	-	-
A/D Resolution	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	72 (TTL)	120 (TTL)	48 (TTL)	96 (TTL)
C/Timers (user)	-	-	-	6 x 16bit (82C54 / TTL)	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO & C/T)	DB25 (DIO & C/T)

\* For compatible accessories see table on page 11

## BT-62-16 / 62-32 / 63-16 / 63-32 / 69-16 / 69-32

### Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs



- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more
- Perfect multi-function Digital I/O device



Bluetooth antenna supplied



USB Bluetooth dongle supplied



Power supply supplied



Model	BT-62-16	BT-62-32	BT-63-16	BT-63-32	BT-69-16	BT-69-32
Functions	DIO	DIO	DIO	DIO	DIO	DIO
A/D Channels	-	-	-	-	-	-
A/D Resolution	-	-	-	-	-	-
A/D Sampling Rate	-	-	-	-	-	-
Bipolar A/D Range	-	-	-	-	-	-
Unipolar A/D Range	-	-	-	-	-	-
D/A Channels	-	-	-	-	-	-
D/A Resolution	-	-	-	-	-	-
D/A Output Range	-	-	-	-	-	-
DIO Channels	24 (TTL) 16 Opto-Isolated Inputs	24 (TTL) 32 Opto-Isolated Inputs	24 (TTL) 16 Reed Relay Outputs	24 (TTL) 32 Reed Relay Outputs	24 (TTL) 8 Opto-Isolated Inputs 8 Reed Relay Outputs	24 (TTL) 16 Opto-Isolated Inputs 16 Reed Relay Outputs
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11

### Software Support



## BT-26A16 / 26C16 / 26C32

### Basic Multi-function DAQ

 A/D  DIO

- Basic all-round analog & digital features
- 14-bit and high resolution 16-bit A/D
- USB to Bluetooth wireless adapter included



Bluetooth antenna supplied



USB Bluetooth dongle supplied



Power supply supplied



Model	BT-26A16	BT-26C16	BT-26C32
Functions	A/D, DIO	A/D, DIO	A/D, DIO
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF
A/D Resolution	14bit	16bit	16bit
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$	$\pm 10V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	-	-	-
D/A Resolution	-	-	-
D/A Output Range	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)	DB25M (A/D) DB25M (DIO)

\* For compatible accessories see table on page 11

### Software Support



## BT-30A16 / 30C16 / 30C32

### Multi-function DAQ

 A/D  D/A  DIO

- Full featured Analog & Digital I/O
- Fantastic performance and value for money
- Huge range of accessories save you time and money
- Great for use with a PDA



Bluetooth antenna supplied



USB Bluetooth dongle supplied



Power supply supplied



Model	BT-30A16	BT-30C16	BT-30C32
Functions	A/D, D/A, DIO	A/D, D/A, DIO	A/D, D/A, DIO
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF
A/D Resolution	14bit	16bit	16bit
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$	$\pm 10V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4
D/A Resolution	14bit	16bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)	DB25M (A/D & D/A) DB25M (DIO)

\* For compatible accessories see table on page 11

### Software Support





**BT-26A16-BNC / 26C16-BNC****Basic Multi-function DAQ with BNC Connectors**
 A/D
  DIO

- BNC connectors integrated onto chassis
- Perfect for lab use and experiments
- Quickly and easily connect your sensors without any hassle
- USB to Bluetooth wireless adapter included



Bluetooth antenna supplied



USB Bluetooth dongle supplied



Power supply supplied



Model	BT-26A16-BNC	BT-26C16-BNC
Functions	A/D, DIO	A/D, DIO
A/D Channels	8 DIFF	8 DIFF
A/D Resolution	14bit	16bit
A/D Sampling Rate	3kHz	3kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	24 (TTL)	24 (TTL)
C/Timers (user)	-	-
Connectors	8xBNC (A/D), DB25M (DIO)	8xBNC (A/D), DB25M (DIO)

\* For compatible accessories see table on page 11

**Software Support****BT-30A16-BNC / 30C16-BNC****Multi-function DAQ with BNC Connectors**
 A/D
  D/A
  DIO

- Complete feature set for lab and field use
- Onboard BNC connectors remove the need for custom cables
- Wide range of Digital I/O accessory modules available



Bluetooth antenna supplied



USB Bluetooth dongle supplied



Power supply supplied



Model	BT-30A16-BNC	BT-30C16-BNC
Functions	A/D, D/A, DIO	A/D, D/A, DIO
A/D Channels	8 DIFF	8 DIFF
A/D Resolution	14bit	16bit
A/D Sampling Rate	3kHz	3kHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$	$\pm 10V$
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-
D/A Channels	4	4
D/A Resolution	14bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)
C/Timers (user)	-	-
Connectors	8xBNC (A/D), DB9 (D/A), DB25M (DIO)	8xBNC (A/D), DB9 (D/A), DB25M (DIO)

\* For compatible accessories see table on page 11

**Software Support****Software Support**

Supplied with Windows &amp; Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications and programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java &amp; ActiveX

## BT-73T8 / 73T16 / 73T32 / 73R16 / 73R32

Thermocouple (T/C) / RTD Temperature Input with Digital I/O

 A/D  DIO

- Support for type J, K, E, T, R, S, B & C Thermocouples
- Cold junction compensation (CJC) for Thermocouples
- Support for 3-wire and 4-wire RTD sensors
- Individual current sources for RTD sensors
- Free temperature logging software provided



T/C Adapter  
Supplied



RTD Adapter &  
DB25M/F cable  
supplied



USB Bluetooth  
dongle supplied



Power supply  
supplied



Bluetooth antenna  
supplied

Model	BT-73T8	BT-73T16	BT-73T32	BT-73R16	BT-73R32
Functions	T/C, DIO	T/C, DIO	T/C, DIO	RTD, DIO	RTD, DIO
A/D Channels	8 T/C	16 T/C	32 T/C	16 RTD	32 RTD
A/D Resolution	14bit	14bit	14bit	14bit	14bit
Bipolar A/D Range	±75mV T/C Range	±75mV T/C Range	±75mV T/C Range	±2.5V RTD Range	±2.5V RTD Range
Unipolar A/D Range	-	-	-	-	-
D/A Channels	-	-	-	-	-
D/A Resolution	-	-	-	-	-
D/A Output Range	-	-	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-
Connectors	DB25M (T/C) DB25M (DIO)	DB25M (T/C) DB25M (DIO)	DB25M (T/C) DB25M (DIO)	DB25M (RTD) DB25M (DIO)	DB25M (RTD) DB25M (DIO)

\* For compatible accessories see table on page 11

## Software Support



## BT-30A16-73T16 / 30C16-73T16 / 30A16-73R16 / 30C16-73R16

Hybrid Multi-function DAQ with Thermocouple (T/C) / RTD Inputs

 A/D  D/A  DIO

- Hybrid feature set makes this the ultimate multi-function DAQ device
- Using one single unit for all of your functions saves you time and money
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Support for 3-wire and 4-wire RTD sensors



Bluetooth antenna  
supplied



USB Bluetooth  
dongle supplied



T/C Adapter  
Supplied



RTD Adapter &  
DB25M/F cable  
supplied

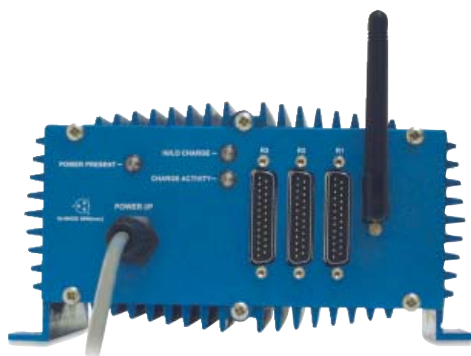


Power supply  
supplied

Model	BT-30A16-73T16	BT-30C16-73T16	BT-30A16-73R16	BT-30C16-73R16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 T/C	16 SE or 8 DIFF & 16 RTD	16 SE or 8 DIFF & 16 RTD
A/D Resolution	14bit (14-bit T/C resolution)	16bit (14-bit T/C resolution)	14bit (14-bit T/C resolution)	16bit (14-bit RTD resolution)
A/D Sampling Rate	3kHz	3kHz	3kHz	3kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, ±75mV T/C Range	±10V, ±75mV T/C Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, ±2.5mV RTD Range	±10V, ±2.5mV RTD Range
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-
D/A Channels	4	4	4	4
D/A Resolution	14bit	16bit	14bit	16bit
D/A Output Range	±10V	±10V	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)

\* For compatible accessories see table on page 11

## RUGGED MicroDAQ By EAGLE Technology



The RUGGED MicroDAQ product range builds on the existing MicroDAQ-series with the addition of a rugged extruded aluminium chassis, integrated switch mode power supply, additional inputs & outputs and an optional rechargeable internal battery backup.

Any of the MicroDAQ products listed on the preceding catalogue pages can be supplied as a RUGGED MicroDAQ. Simply add an "R" prefix to the part number. You will also need to specify the power supply type (AC or DC). This is done by adding the corresponding "-AC" or "-DC" suffix to the part number.

Finally, you will need to specify whether the product should have the optional battery pack by appending the "-BAT" suffix for internal battery pack, or nothing if this option is not required.

Examples:  
R-USB-30A16-AC  
R-NET-168A-DC-BAT  
R-SRL-48C-DC

In addition to these, there are a number of product variations which are only available as a RUGGED MicroDAQ. Visit our website at [www.eagledaq.com](http://www.eagledaq.com) or contact Eagle Technology for more information.

### RUGGED MicroDAQ Key Features:

- Extruded Aluminium Housing
- Rubber Gasket Seals
- Wide Range internal AC or DC power supply
- AC Power Supply Input Range: 90-240 VAC
- DC Power Supply Input Range: 18-40 VDC
- Optional Integrated Charger and Battery Backup
- Status LEDs
- Vibration Mounting Kit Included
- DIN Rail Mounting Clips Included
- Rugged Cables Included
- Dimensions: (height x width x length)  
Rugged MicroDAQ: 106mm x 205mm x 150mm



### Software Support for all Rugged MicroDAQ models

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications and programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX

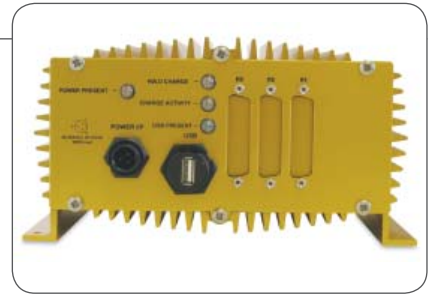


## R-USB-168A / 144C

### Rugged USB Digital I/O with Counter Timers

 DIO  C/Timer

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Up to 168 lines of programmable Digital I/O
- Optional Counter/Timers with interrupts



Model	R-USB-168A	R-USB-144C
Functions	DIO	DIO, C/Timers
A/D Channels	-	-
A/D Resolution	-	-
A/D Sampling Rate	-	-
Bipolar A/D Range	-	-
Unipolar A/D Range	-	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	168 (TTL)	144 (TTL)
C/Timers (user)	-	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO & C/T)

\* For compatible accessories see table on page 11

### Software Support

Supplied with Windows & Linux drivers  
 CD includes full WaveView software suite  
 Support for all major 3rd party applications and programming support for  
 Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



## R-USB-62-48 / 63-48 / 69-48

### Rugged USB Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs

 DIO

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more



Model	R-USB-62-48	R-USB-63-48	R-USB-69-48
Functions	DIO	DIO	DIO
A/D Channels	-	-	-
A/D Resolution	-	-	-
A/D Sampling Rate	-	-	-
Bipolar A/D Range	-	-	-
Unipolar A/D Range	-	-	-
D/A Channels	-	-	-
D/A Resolution	-	-	-
D/A Output Range	-	-	-
DIO Channels	24 (TTL) 48 Opto-Isolated Inputs	24 (TTL) 48 Reed Relay Outputs	24 (TTL) 48 Opto-Isolated Inputs 24 Reed Relay Outputs
C/Timers (user)	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11



### Software Support



# 7 RUGGED MicroDAQ

## R-USB-30A16-73T32 / 30B16-73T32 / 30C16-73T32 / 30D16-73T32 / 30C32-73T16 / 30D32-73T16

### Rugged USB Hybrid Multi-function DAQ with Thermocouple (T/C) Inputs

 A/D

 D/A

 DIO



T/C Adapter Supplied



Rugged USB cable supplied



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied



Model	R-USB-30A16-73T32	R-USB-30B16-73T32	R-USB-30C16-73T32	R-USB-30D16-73T32	R-USB-30C32-73T16	R-USB-30D32-73T16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C
A/D Channels	16 SE or 8 DIFF & 32 T/C	16 SE or 8 DIFF & 32 T/C	16 SE or 8 DIFF & 32 T/C	16 SE or 8 DIFF & 32 T/C	32 SE or 16 DIFF & 16 T/C	32 SE or 16 DIFF & 16 T/C
A/D Resolution	14bit	14bit	16bit (14-bit T/C)	16bit (14-bit T/C)	16bit (14-bit T/C)	16bit (14-bit T/C)
A/D Sampling Rate	250kHz	400kHz	250kHz	1.0MHz	250kHz	1.0MHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , $\pm 75mV$ T/C Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , $\pm 75mV$ T/C Range	$\pm 10V$ , $\pm 75mV$ T/C Range	$\pm 5V$ , $\pm 75mV$ T/C Range	$\pm 10V$ , $\pm 75mV$ T/C Range	$\pm 5V$ , $\pm 75mV$ T/C Range
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-	-	-
D/A Channels	4	4	4	4	4	4
D/A Resolution	14bit	14bit	16bit	16bit	16bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)

\* For compatible accessories see table on page 11

## R-USB-30A16-73R32 / 30B16-73R32 / 30C16-73R32 / 30D16-73R32 / 30C32-73R16 / 30D32-73R16

### Rugged USB Hybrid Multi-function DAQ with RTD Inputs

 A/D

 D/A

 DIO



RTD Adapter Supplied



Rugged USB cable supplied



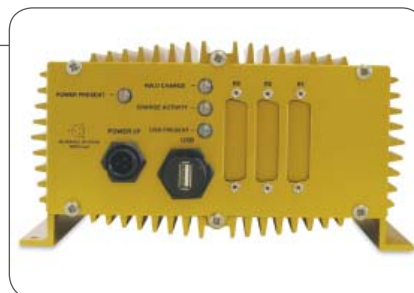
Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied



Model	USB-30A16-73R32	USB-30B16-73R32	USB-30C16-73R32	USB-30D16-73R32	USB-30C32-73R16	USB-30D32-73R16
Functions	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 32 RTD	16 SE or 8 DIFF & 32 RTD	16 SE or 8 DIFF & 32 RTD	16 SE or 8 DIFF & 32 RTD	32 SE or 16 DIFF & 16 RTD	32 SE or 16 DIFF & 16 RTD
A/D Resolution	14bit (14-bit RTD)	14bit (14-bit RTD)	16bit (14-bit RTD)	16bit (14-bit RTD)	16bit (14-bit RTD)	16bit (14-bit RTD)
A/D Sampling Rate	250kHz	400kHz	250kHz	1.0MHz	250kHz	1.0MHz
Bipolar A/D Range	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , ( $\pm 2.5V$ RTD Range)	$\pm 10V$ , $\pm 5V$ , $\pm 2.5V$ , $\pm 1V$ , $\pm 500mV$ , $\pm 250mV$ , $\pm 100mV$ , $\pm 50mV$ , $\pm 25mV$ , ( $\pm 2.5V$ RTD Range)	$\pm 10V$ , ( $\pm 2.5V$ RTD Range)	$\pm 5V$ , ( $\pm 2.5V$ RTD Range)	$\pm 10V$ , ( $\pm 2.5V$ RTD Range)	$\pm 5V$ , ( $\pm 2.5V$ RTD Range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-	-	-
D/A Channels	4	4	4	4	4	4
D/A Resolution	14bit	14bit	16bit	16bit	16bit	16bit
D/A Output Range	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$	$\pm 10V$
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)

\* For compatible accessories see table on page 11

## R-NET-168A / 144C

### Rugged Ethernet Digital I/O with Counter Timers

 DIO  C/Timer

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Up to 168 lines of programmable Digital I/O
- Optional Counter/Timers with interrupts

Model	R-NET-168A	R-NET-144C
Functions	DIO	C/Timers, DIO
A/D Channels	-	-
A/D Resolution	-	-
A/D Sampling Rate	-	-
Bipolar A/D Range	-	-
Unipolar A/D Range	-	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	168 (TTL)	144 (TTL)
C/Timers (user)	-	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO & C/T)

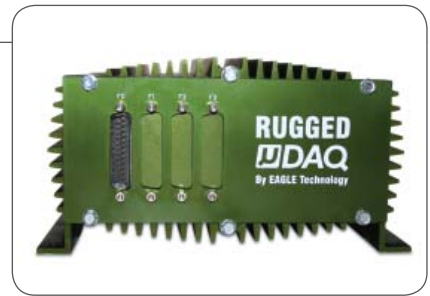
\* For compatible accessories see table on page 11

### Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications and programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX



Rugged Ethernet cable supplied



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied



## R-NET-62-48 / 63-48 / 69-48

### Rugged Ethernet Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs

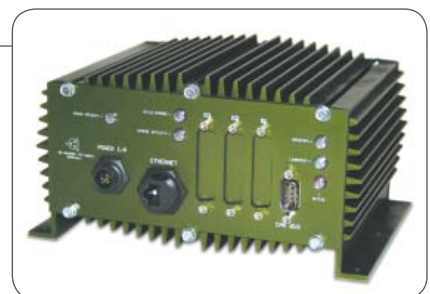
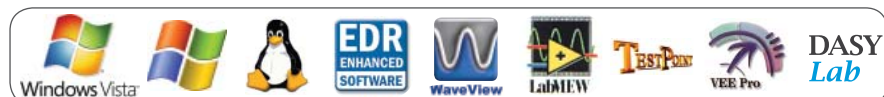
 DIO

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more

Model	R-NET-62-48	R-NET-63-48	R-NET-69-48
Functions	DIO	DIO	DIO
A/D Channels	-	-	-
A/D Resolution	-	-	-
A/D Sampling Rate	-	-	-
Bipolar A/D Range	-	-	-
Unipolar A/D Range	-	-	-
D/A Channels	-	-	-
D/A Resolution	-	-	-
D/A Output Range	-	-	-
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
	48 Opto-Isolated Inputs	48 Reed Relay Outputs	24 Opto-Isolated Inputs 24 Reed Relay Outputs
C/Timers (user)	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11

### Software Support



Rugged Ethernet cable supplied



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied



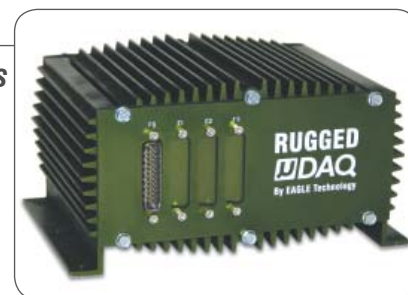
# 7 RUGGED MicroDAQ

## R-NET-30C16-73T32 / R-NET-30C32-73T16

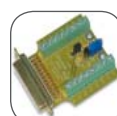
Rugged Ethernet Hybrid Multi-function DAQ with Thermocouple (T/C) Inputs

 A/D  D/A  DIO

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Hybrid feature set makes this the ultimate multi-function DAQ device
- Free temperature logging software provided



Model	R-NET-30C16-73T32	R-NET-30C32-73T16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C
A/D Channels	16 SE or 8 DIFF & 32 T/C	32 SE or 16 DIFF & 16 T/C
A/D Resolution	16bit (14-bit T/C)	16bit (14-bit T/C)
A/D Sampling Rate	250kHz	250kHz
Bipolar A/D Range	±10V, (±75mV T/C Range)	±10V, (±75mV T/C Range)
Unipolar A/D Range	-	-
D/A Channels	4	4
D/A Resolution	16bit	16bit
D/A Output Range	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)
C/Timers (user)	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)



T/C Adapter Supplied



Rugged Ethernet cable supplied



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

\* For compatible accessories see table on page 11

## R-NET-30C16-73R32 / R-NET-30C32-73R16

Rugged Ethernet Hybrid Multi-function DAQ with RTD Inputs

 A/D  D/A  DIO

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Support for 3-wire and 4-wire RTD sensors
- Hybrid feature set makes this the ultimate multi-function DAQ device
- Free temperature logging software provided



Model	R-NET-30C16-73R32	R-NET-30C32-73R16
Functions	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 32 RTD	32 SE or 16 DIFF & 16 RTD
A/D Resolution	16bit (14-bit RTD)	16bit (14-bit RTD)
A/D Sampling Rate	250kHz	250kHz
Bipolar A/D Range	±10V, (±2.5V RTD Range)	±10V, (±2.5V RTD Range)
Unipolar A/D Range	-	-
D/A Channels	4	4
D/A Resolution	16bit	16bit
D/A Output Range	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)
C/Timers (user)	-	-
Connectors	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD)



RTD Adapter & DB25M/F cable supplied



Rugged Ethernet cable supplied



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

\* For compatible accessories see table on page 11

## R-SRL-168A / 144C

### Rugged Serial Digital I/O with Counter Timers

Model	R-SRL-168A	R-SRL-144C
Functions	DIO	DIO, C/Timers
A/D Channels	-	-
A/D Resolution	-	-
A/D Sampling Rate	-	-
Bipolar A/D Range	-	-
Unipolar A/D Range	-	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	168 (TTL)	144 (TTL)
C/Timers (user)	-	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO & C/T)

\* For compatible accessories see table on page 11



Screw terminal adapter supplied for RS484 models



5m Serial cable supplied for RS232 models



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

## R-SRL-62-48 / 63-48 / 69-48

### Rugged Serial Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs

Model	R-SRL-62-48	R-SRL-63-48	R-SRL-69-48
Functions	DIO	DIO	DIO
A/D Channels	-	-	-
A/D Resolution	-	-	-
A/D Sampling Rate	-	-	-
Bipolar A/D Range	-	-	-
Unipolar A/D Range	-	-	-
D/A Channels	-	-	-
D/A Resolution	-	-	-
D/A Output Range	-	-	-
DIO Channels	24 (TTL), 48 Opto-Isolated Inputs	24 (TTL), 48 Reed Relay Outputs	24 (TTL), 24 Opto-Isolated Inputs, 24 Reed Relay Outputs
C/Timers (user)	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11



Screw terminal adapter supplied for RS484 models



5m Serial cable supplied for RS232 models



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

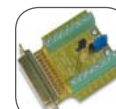
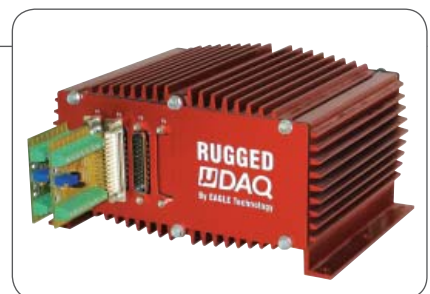
## R-SRL-30A16-73T32 / 30C16-73T32 / 30C32-73T16

### Rugged Serial Hybrid Multi-function DAQ with Thermocouple (T/C) Inputs



Model	R-SRL-30A16-73T32	R-SRL-30C16-73T32	R-SRL-30C32-73T16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C
A/D Channels	16 SE or 8 DIFF & 32 T/C	16 SE or 8 DIFF & 32 T/C	32 SE or 16 DIFF & 16 T/C
A/D Resolution	14bit (14-bit T/C resolution)	16bit (14-bit T/C resolution)	16bit (14-bit T/C resolution)
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±75mV T/C Range)	±10V, (±75mV T/C Range)	±10V, (±75mV T/C Range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4
D/A Resolution	14bit	16bit	16bit
D/A Output Range	±10V	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)

\* For compatible accessories see table on page 11



T/C Adapter Supplied



Screw terminal adapter supplied for RS485 models



5m Serial cable supplied for RS232 models



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

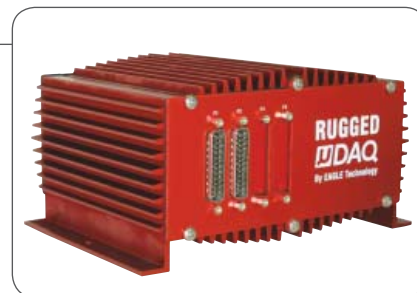
# 7 RUGGED MicroDAQ

## R-SRL-30A16-73R32 / 30C16-73R32 / 30C32-73R16

### Rugged Serial Hybrid Multi-function DAQ with RTD Inputs

 A/D  D/A  DIO

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Hybrid feature set makes this the ultimate multi-function DAQ device
- Free temperature logging software provided



Model	R-SRL-30A16-73R32	R-SRL-30C16-73R32	R-SRL-30C32-73R16
Functions	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 32 RTD	16 SE or 8 DIFF & 32 RTD	32 SE or 16 DIFF & 16 RTD
A/D Resolution	14bit (14-bit RTD resolution)	16bit (14-bit RTD resolution)	16bit (14-bit RTD resolution)
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±2.5V RTD range)	±10V, (±2.5V RTD range)	±10V, (±2.5V RTD range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4
D/A Resolution	14bit	16bit	16bit
D/A Output Range	±10V	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)

\* For compatible accessories see table on page 11

### Software Support



RTD Adapter & DB25M/F cable supplied



Screw Terminal Adapter supplied for RS485 models



5m Serial cable supplied for RS232 models



Rugged Power cable supplied



Vibration Mounting kit Supplied



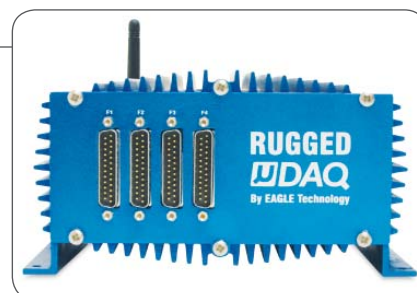
DIN Rail mounting kit supplied

## R-BT-168A / 144C

### Rugged Wireless Digital I/O with Counter Timers

 DIO  C/Timer

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Up to 168 lines of programmable Digital I/O
- Optional Counter/Timers
- USB to Bluetooth wireless adapter included



Model	R-BT-168A	R-BT-144C
Functions	DIO	DIO, C/Timers
A/D Channels	-	-
A/D Resolution	-	-
A/D Sampling Rate	-	-
Bipolar A/D Range	-	-
Unipolar A/D Range	-	-
D/A Channels	-	-
D/A Resolution	-	-
D/A Output Range	-	-
DIO Channels	168 (TTL)	144 (TTL)
C/Timers (user)	-	6 x 16bit (82C54 / TTL)
Connectors	DB25 (DIO)	DB25 (DIO & C/T)

\* For compatible accessories see table on page 11



Bluetooth antenna supplied



USB Bluetooth Dongle supplied



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

### Software Support





## R-BT-62-48 / 63-48 / 69-48

**Rugged Wireless Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs**



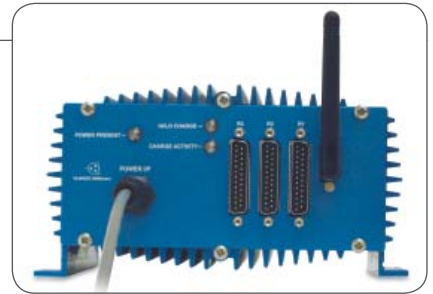
- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more
- USB to Bluetooth wireless adapter included



Bluetooth antenna supplied



USB Bluetooth Dongle supplied



Rugged Power cable supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

Model	R-BT-62-48	R-BT-63-48	R-BT-69-48
Functions	DIO	DIO	DIO
A/D Channels	-	-	-
A/D Resolution	-	-	-
A/D Sampling Rate	-	-	-
Bipolar A/D Range	-	-	-
Unipolar A/D Range	-	-	-
D/A Channels	-	-	-
D/A Resolution	-	-	-
D/A Output Range	-	-	-
DIO Channels	24 (TTL), 48 Opto-Isolated Inputs	24 (TTL), 48 Reed Relay Outputs	24 (TTL), 24 Opto-Isolated Inputs, 24 Reed Relay Outputs
C/Timers (user)	-	-	-
Connectors	DB25 (DIO)	DB25 (DIO)	DB25 (DIO)

\* For compatible accessories see table on page 11

## Software Support

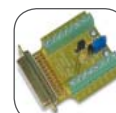
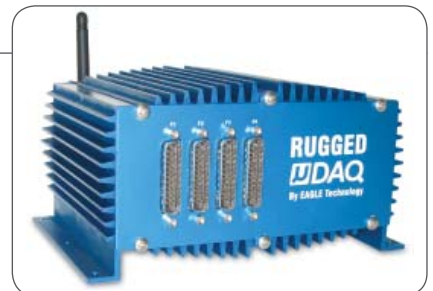


## R-BT-30A16-73T32 / 30C16-73T32 / 30C32-73T16

**Rugged Wireless Hybrid Multi-function DAQ with Thermocouple (T/C) Inputs**



- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Free temperature logging software provided



T/C Adapter Supplied



USB Bluetooth dongle supplied



Rugged Power cable supplied



Bluetooth antenna supplied



Vibration Mounting kit Supplied



DIN Rail mounting kit supplied

Model	R-BT-30A16-73T32	R-BT-30C16-73T32	R-BT-30C32-73T16
Functions	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C	A/D, D/A, DIO, T/C
A/D Channels	16 SE or 8 DIFF & 32 T/C	16 SE or 8 DIFF & 32 T/C	32 SE or 16 DIFF & 16 T/C
A/D Resolution	14bit (14-bit T/C resolution)	16bit (14-bit T/C resolution)	16bit (14-bit T/C resolution)
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±75mV T/C Range)	±10V, (±75mV T/C Range)	±10V, (±75mV T/C Range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4
D/A Resolution	14bit	16bit	16bit
D/A Output Range	±10V	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)

\* For compatible accessories see table on page 11

## Software Support



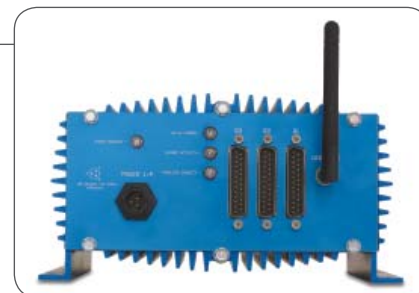
# 7 RUGGED MicroDAQ

## R-BT-30A16-73R32 / 30C16-73R32 / 30C32-73R16

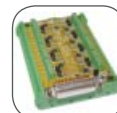
### Rugged Wireless Hybrid Multi-function DAQ with RTD Inputs

**A/D** **D/A** **DIO**

- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Support for 3-wire and 4-wire RTD sensors
- Individual current sources for RTD sensors
- Hybrid feature set makes this the ultimate multi-function DAQ device
- Free temperature logging software provided



Bluetooth antenna supplied



RTD Adapter & DB25M/F cable supplied



USB Bluetooth Dongle supplied



Rugged Power cable supplied



Vibration Mounting kit supplied



DIN Rail mounting kit supplied

Model	R-BT-30A16-73T32	R-BT-30C16-73R32	R-BT-30C32-73R16
Functions	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD	A/D, D/A, DIO, RTD
A/D Channels	16 SE or 8 DIFF & 32 RTD	16 SE or 8 DIFF & 32 RTD	32 SE or 16 DIFF & 16 RTD
A/D Resolution	14bit (14-bit RTD resolution)	16bit (14-bit RTD resolution)	16bit (14-bit RTD resolution)
A/D Sampling Rate	3kHz	3kHz	3kHz
Bipolar A/D Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±2.5V RTD Range)	±10V, (±2.5V RTD Range)	±10V, (±2.5V RTD Range)
Unipolar A/D Range	0-10V, 0-5V, 0-1V, 0-500mV, 0-100mV, 0-50mV	-	-
D/A Channels	4	4	4
D/A Resolution	14bit	16bit	16bit
D/A Output Range	±10V	±10V	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	-	-	-
Connectors	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)	DB25M (A/D & D/A), DB25M (RTD), DB25M (DIO)

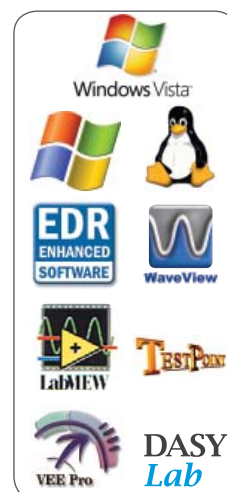
\* For compatible accessories see table on page 11

### Software Support

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

Support for all major 3rd party applications and programming support for Visual C#, Visual C/C+++, Visual Basic, VB.NET, Delphi, Java & ActiveX



### MicroDAQ Pin Assignments

DB-25M	DB-25M	DB-25M	DB-25M	DB-25M	DB-25M
PA1 14 1 PA0 PA3 15 2 PA2 PA5 16 3 PA4 PA7 17 4 PA6 PB1 18 5 PB0 PB3 19 6 PB2 PB5 20 7 PB4 PB7 21 8 PB6 PC1 22 9 PC0 PC3 23 10 PC2 PC5 24 11 PC4 PC7 25 12 PC6 13 DGND	ACH1 14 1 ACH0 ACH3 15 2 ACH2 ACH5 16 3 ACH4 ACH7 17 4 ACH6 ACH9 18 5 ACH8 ACH11 19 6 ACH10 ACH13 20 7 ACH12 ACH15 21 8 ACH14 DAC0 22 9 AGND DAC2 23 10 DAC1 NC 24 11 DAC3 EXT_TRIG 25 12 NC 13 EXT_CLK	8.4V 14 1 AGND +15V 15 2 AGND CJC 16 3 AGND -15V 17 4 AGND CH7- 18 5 AGND CH6- 19 6 CH7+ CH5- 20 7 CH6+ CH4- 21 8 CH5+ CH3- 22 9 CH4+ CH2- 23 10 CH3+ CH1- 24 11 CH2+ CH0- 25 12 CH1+ 13 CH0+	Opto 0(-) 14 1 Opto 0(+) Opto 1(-) 15 2 Opto 1(+) Opto 2(-) 16 3 Opto 2(+) Opto 3(-) 17 4 Opto 3(+) Opto 4(-) 18 5 Opto 4(+) Opto 5(-) 19 6 Opto 5(+) Opto 6(-) 20 7 Opto 6(+) Opto 7(-) 21 8 Opto 7(+) COM(-) 22 9 NC NC 23 10 NC NC 24 11 NC NC 25 12 NC 13 NC	Relay 0 RET 14 1 Relay 0 Relay 1 RET 15 2 Relay 1 Relay 2 RET 16 3 Relay 2 Relay 3 RET 17 4 Relay 3 Relay 4 RET 18 5 Relay 4 Relay 5 RET 19 6 Relay 5 Relay 6 RET 20 7 Relay 6 Relay 7 RET 21 8 Relay 7 NC 22 9 NC NC 23 10 NC NC 24 11 NC NC 25 12 NC 13 NC	NC 14 1 NC OUT5 15 2 NC CLK_EXT5 16 3 GATE_EXT5 OUT4 17 4 CLK_EXT0 OUT0 18 5 GATE_EXT0 CLK_EXT2 19 6 OUT2 GATE_EXT2 20 7 CLK_EXT1 GATE_EXT1 21 8 OUT1 GATE_EXT4 22 9 DGNDNC CLK_EXT4 23 10 NC OUT3 24 11 NC GATE_EXT3 25 12 NC 13 CLK_EXT3
MicroDAQ & Rugged MicroDAQ Digital I/O (0 - 23) (24 - 47) (48 - 71) (72 - 95) (96 - 119) (120 - 143) (144 - 167)	MicroDAQ & Rugged MicroDAQ Analog I/O A/D: (0 - 15) (16 - 31) D/A: (0 - 3)	MicroDAQ & Rugged MicroDAQ Temperature Inputs (0 - 15) (16 - 31)	MicroDAQ & Rugged MicroDAQ Opto Inputs (0 - 7) (8 - 15) (16 - 23) (24 - 31) (32 - 39) (40 - 47)	MicroDAQ & Rugged MicroDAQ Relay Outputs (0 - 7) (8 - 15) (16 - 23) (24 - 31) (32 - 39) (40 - 47)	MicroDAQ & Rugged MicroDAQ Counter / Timers

#### DB-9F



BNC MicroDAQ Analog Input

DAC1 6 1 DAC0	7 2 DAC2
AGND 8 3 10V-REFCAL	9 4 DGND
EXT_TRIG 9 4	EXT_CLK 5

BNC MicroDAQ Analog Outputs

### PCI - 725 / 726 / 730 / 725E / 726E / 730E

DB 25M				IDC 40M			
CH1	14	1	CH0	PA0	1	2	PA1
CH3	15	2	CH2	PA2	3	4	PA3
CH5	16	3	CH4	PA4	5	6	PA5
CH7	17	4	CH6	PA6	7	8	PA7
CH9	18	5	CH8	PB0	9	10	PB1
CH11	19	6	CH10	PB2	11	12	PB3
CH13	20	7	CH12	PB4	13	14	PB5
CH15	21	8	CH14	PB6	15	16	PB7
DAC0	22	9	AGND	PC0	17	18	PC1
DAC2	23	10	DAC1	PC2	19	20	PC3
+VDD	24	11	DAC3	PC4	21	22	PC5
EXT_TRIGGER	25	12	-VDD	PC6	23	24	PC7
				DGND	25	26	NOT USED
				CLK0	27	28	NOT USED
				COUT0	29	30	GATE0
				GATE1	31	32	CLK1
				CLK2	33	34	COUT1
				COUT2	35	36	GATE2
				+5V	37	38	DGND
				DGND	39	40	DGND

### PCI - 766-8 / 766-16 / 766-24

#### SCSI DSub 68M

AGND	35	1	AGND
AOCH0	36	2	AREF0
AOCH1	37	3	AREF1
AOCH2	38	4	AREF2
AOCH3	39	5	AREF3
AGND	40	6	AGND
AOCH4	41	7	AREF4
AOCH5	42	8	AREF5
AOCH6	43	9	AREF6
AOCH7	44	10	AREF7
AGND	45	11	AGND
AOCH8	46	12	AREF8
AOCH9	47	13	AREF9
AOCH10	48	14	AREF10
AOCH11	49	15	AREF11
AGND	50	16	AGND
AOCH12	51	17	AREF12
AOCH13	52	18	AREF13
AOCH14	53	19	AREF14
AOCH15	54	20	AREF15
AGND	55	21	AGND
AOCH16	56	22	AREF16
AOCH17	57	23	AREF17
AOCH18	58	24	AREF18
AOCH19	59	25	AREF19
AGND	60	26	AGND
AOCH20	61	27	AREF20
AOCH21	62	28	AREF21
AOCH22	63	29	AREF22
AOCH23	64	30	AREF23
DI5	65	31	DI4
DI3	66	32	DI2
DI1/EXT_CLK	67	33	DI0
DGND	68	34	+5V_FUSED

### PCI - 836A / 836C

DB-37M				DB-20M			
PC3	20	1	+12V_FUSED	DO0	1	2	DO1
PC2	21	2	+5V_FUSED	DO2	3	4	DO3
PC1	22	3	GND	DO4	5	6	DO5
PC0	23	4	PA0	DO6	7	8	DO7
PC4	24	5	PA1	DO8	9	10	DO9
PC5	25	6	PA2	DO10	11	12	DO11
PC6	26	7	PA3	DO12	13	14	DO13
PC7	27	8	PA4	DO14	15	16	DO15
GND	28	9	PA5	DGND	17	18	GND
GND	29	10	PA6	+5V_FUSED	19	20	+5V_FUSED
GND	30	11	PA7				
GND	31	12	PB0				
GND	32	13	PB1				
EXT TRIG	33	14	PB2				
EXTTRIGRET	34	15	PB3				
-12V_FUSED	35	16	PB4				
N/C	36	17	PB5				
DGND	37	18	PB6				
			PB7				

#### DB-25M (Internal Cable)

DO1	14	1	DO0
DO3	15	2	DO2
DO5	16	3	DO4
DO7	17	4	DO6
DO9	18	5	DO8
DO11	19	6	DO10
DO13	20	7	DO12
DO15	21	8	DO14
GND	22	9	GND
+5V_FUSED	23	10	+5V_FUSED
NC	24	11	NC
NC	25	12	NC
			NC

### PCI - 703-16 / 703-16A / 703-32 / 703-32A / 703-64 / 703-64A

#### SCSI Dsub 68M

DGND	35	1	FREQ_OUT
DGND	36	2	GPCTRO_OUT
PF18	37	3	PF19
PF17/STARTSCAN	38	4	DGND
DGND	39	5	PF16
GPCTR1_OUT	40	6	PF15
PF14	41	7	DGND
PF13/GPCTR1	42	8	+5V
PF12/CONVERT	43	9	DGND
DGND	44	10	PF11/TRIG2
EXTSTROB	45	11	PF10/TRIG1
SCANCLK	46	12	DGND
DIO3	47	13	DGND
DIO7	48	14	+5V
DIO2	49	15	DGND
DGND	50	16	DIO6
DIO5	51	17	DIO1
DIO0	52	18	DGND
DGND	53	19	DIO4
AOGND	54	20	RESERVED
AOGND	55	21	DAC1OUT
AGND	56	22	DAC0OUT
ACH7	57	23	ACH15
ACH14	58	24	AGND
AGND	59	25	ACH6
ACH5	60	26	ACH13
ACH12	61	27	AGND
AISENSE	62	28	ACH4
ACH11	63	29	AGND
AGND	64	30	ACH3
ACH2	65	31	ACH10
ACH9	66	32	AGND
AGND	67	33	ACH1
ACH0	68	34	ACH8

PCI-703-16/16A

#### SCSI Dsub 100M

ACH63	100	50	FREQ_OUT
ACH55	99	49	GPCTRO_OUT
ACH62	98	48	PF19
ACH54	97	47	PF18
ACH61	96	46	PF16
ACH53	95	45	PF15
ACH60	94	44	PF15
ACH52	93	43	GPCTR1_OUT
ACH59	92	42	PF14
ACH51	91	41	PF14
ACH58	90	40	PF12/CONVERT
ACH50	89	39	PF11/TRIG2
ACH57	88	38	PF11/TRIG1
ACH49	87	37	EXTROB
ACH56	86	36	SCANCLK
ACH48	85	35	+5V
ACH47	84	34	+5V
ACH39	83	33	DGND
ACH46	82	32	DIO7
ACH38	81	31	DIO3
ACH45	80	30	DIO6
ACH37	79	29	DIO2
ACH44	78	28	DIO5
ACH36	77	27	DIO1
AGND	76	26	DIO4
AISENSE2	75	25	DIO0
ACH43	74	24	DGND
ACH35	73	23	AGND
ACH42	72	22	RESERVED
ACH34	71	21	DAC1OUT
ACH41	70	20	DAC0OUT
ACH33	69	19	AISENSE
ACH40	68	18	ACH15
ACH32	67	17	ACH7
ACH31	66	16	ACH14
ACH23	65	15	ACH6
ACH30	64	14	ACH13
ACH22	63	13	ACH5
ACH29	62	12	ACH12
ACH21	61	11	ACH4
ACH28	60	10	ACH11
ACH20	59	9	ACH3
ACH27	58	8	ACH10
ACH19	57	7	ACH2
ACH26	56	6	ACH9
ACH18	55	5	ACH1
ACH25	54	4	ACH8
ACH17	53	3	ACH0
ACH24	52	2	AGND
ACH16	51	1	AGND

\*PCI-703-32/32A uses only the first 32 channels

PCI-703-32/32A/64/64A

### PCI - 703-S8 / 703-S8A / 703-S16 / 703-S16A

#### SCSI DSub 68M

AGND	35	1	AGND
ACH15	36	2	ACH14
ACH15+	37	3	ACH14+
ACH13	38	4	ACH12
ACH13+	39	5	ACH12+
ACH11	40	6	ACH10
ACH11+	41	7	ACH10+
ACH9	42	8	ACH8
ACH9+	43	9	ACH8+
AGND	44	10	AGND
ACH7	45	11	ACH6
ACH7+	46	12	ACH6+
ACH5	47	13	ACH4
ACH5+	48	14	ACH4+
ACH3	49	15	ACH2
ACH3+	50	16	ACH2+
ACH1	51	17	ACH0
ACH1+	52	18	ACH0+
DAC1	53	19	DAC0
AGND	54	20	AGND
DGND	55	21	DGND
NC	56	22	FREQ_OUT
GPCTR1	57	23	GPCTR0
PF19	58	24	PF18
PF17/STARTSCAN	59	25	PF16
PF15	60	26	PF14
PF13	61	27	PF12/CONVERT
PF11	62	28	PF10
+5V	63	29	+5V
DGND	64	30	DGND
DIO7	65	31	DIO6
DIO5	66	32	DIO4
DIO3	67	33	DIO2
DIO1	68	34	DIO0

### PCI - 14B SCSI Cent 68F

+5V	1	35	+5V
DI2	2	36	DI1
DI4	3	37	DI3
DI6	4	38	DI5
DI8	5	39	DI7
DI10	6	40	DI9
DI12	7	41	DI11
DI14	8	42	DI13
DI16	9	43	DI15
DI18	10	44	DI17
DI20	11	45	DI19
DI22	12	46	DI21
DI24	13	47	DI23
DGND	14	48	DGND
CNTR0_CLK	15	49	CNTR0_GATE
CNTR1_CLK	16	50	CNTR1_GATE
CNTR2_CLK	17	51	CNTR2_GATE
CNTR3_CLK	18	52	CNTR3_GATE
CNTR4_CLK	19	53	CNTR4_GATE
CNTR5_CLK	20	54	CNTR5_GATE
DGND	21	55	DGND
DO1/CNTR0_TC	22	56	DO2/CNTR1_TC
DO3/CNTR2_TC	23	57	DO4/CNTR3_TC
DO5/CNTR4_TC	24	58	DO6/CNTR5_TC
DO7	25	59	DO8
DO9	26	60	DO10
DO11	27	61	DO12
DO13	28	62	DO14
DO15	29	63	DO16
DO17	30	64	DO18
DO19	31	65	DO20
DO21	32	66	DO22
DO23	33	67	DO24
DGND	34	68	GND

### PCI - 848 / 848C / 896 / 896C / 8192 / 8192C

#### IDC50

PC7	1	2	DGND
PC6	3	4	DGND
PC5	5	6	DGND
PC4	7	8	DGND
PC3	9	10	DGND
PC2	11	12	DGND
PC1	13	14	DGND
PC0	15	16	DGND
PB7	17	18	DGND
PB6	19	20	DGND
PB5	21	22	DGND
PB4	23	24	DGND
PB3	25	26	DGND
PB2	27	28	DGND
PB1	29	30	DGND
PB0	31	32	DGND
PA7	33	34	DGND
PA6	35	36	DGND
PA5	37	38	DGND
PA4	39	40	DGND
PA3	41	42	DGND
PA2	43	44	DGND
PA1	45	46	DGND
PA0	47	48	DGND
+5V_FUSED	49	50	DGND

#### DB 25M (C-Models only)

NC	14	1	+12V_FUSED
NC	15	2	-12V_FUSED
NC	16	3	NC
NC	17	4	CLK0
OUT0	18	5	GATE0
CLK2	19	6	OUT2
GATE2	20	7	CLK1
GATE1	21	8	OUT1
NC	22	9	DGND
NC	23	10	+5V_FUSED
EXT_TRIG_RET	24	11	NC
FREQ_IN	25	12	EXT_TRIG
			FREQ_OUT



## PCI -762-16 / 762-32 / 762-48

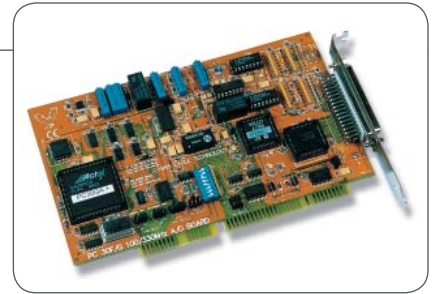
DB-37M  
(external)

D11	20	1	D10
D13	21	2	D12
D15	22	3	D14
D17	23	4	D16
D19	24	5	D18
D21	25	6	D110
D113	26	7	D112
D115	27	8	D114
D117	28	9	D116
D119	29	10	D118
D121	30	11	D120
D123	31	12	D122
D125	32	13	D124
D127	33	14	D126
D129	34	15	D128
D131	35	16	D130
D133	36	17	D132
D135	37	18	D134
D137	38	19	D136
D139	39	20	D138
D141	40	21	D140
D143	41	22	D142
D145	42	23	D144
D147	43	24	D146
D149	44	25	D148
D151	45	26	D150
D153	46	27	D152
D155	47	28	D154
D157	48	29	D156
D159	49	30	D158
D161	50	31	D160
D163	51	32	D162
D165	52	33	D164
D167	53	34	D166
D169	54	35	D168
D171	55	36	D170
D173	56	37	D172
D175	57	38	D174
D177	58	39	D176
D179	59	40	D178
D181	60	41	D180
D183	61	42	D182
D185	62	43	D184
D187	63	44	D186
D189	64	45	D188
D191	65	46	D190
D193	66	47	D192
D195	67	48	D194
D197	68	49	D196
D199	69	50	D198
D201	70	51	D200
D203	71	52	D202
D205	72	53	D204
D207	73	54	D206
D209	74	55	D208
D211	75	56	D210
D213	76	57	D212
D215	77	58	D214
D217	78	59	D216
D219	79	60	D218
D221	80	61	D220
D223	81	62	D222
D225	82	63	D224
D227	83	64	D226
D229	84	65	D228
D231	85	66	D230
D233	86	67	D232
D235	87	68	D234
D237	88	69	D236
D239	89	70	D238
D241	90	71	D240
D243	91	72	D242
D245	92	73	D244
D247	93	74	D246
D249	94	75	D248
D251	95	76	D250
D253	96	77	D252
D255	97	78	D254
D257	98	79	D256
D259	99	80	D258
D261	100	81	D260
D263	101	82	D262
D265	102	83	D264
D267	103	84	D266
D269	104	85	D268
D271	105	86	D270
D273	106	87	D272
D275	107	88	D274
D277	108	89	D276
D279	109	90	D278
D281	110	91	D280
D283	111	92	D282
D285	112	93	D284
D287	113	94	D286
D289	114	95	D288
D291	115	96	D290
D293	116	97	D292
D295	117	98	D294
D297	118	99	D296
D299	119	100	D298
D301	120	101	D300
D303	121	102	D302
D305	122	103	D304
D307	123	104	D306
D309	124	105	D308
D311	125	106	D310
D313	126	107	D312
D315	127	108	D314
D317	128	109	D316
D319	129	110	D318
D321	130	111	D320
D323	131	112	D322
D325	132	113	D324
D327	133	114	D326
D329	134	115	D328
D331	135	116	D330
D333	136	117	D332
D335	137	118	D334
D337	138	119	D336
D339	139	120	D338
D341	140	121	D340
D343	141	122	D342
D345	142	123	D344
D347	143	124	D346
D349	144	125	D348
D351	145	126	D350
D353	146	127	D352
D355	147	128	D354
D357	148	129	D356
D359	149	130	D358
D361	150	131	D360
D363	151	132	D362
D365	152	133	D364
D367	153	134	D366
D369	154	135	D368
D371	155	136	D370
D373	156	137	D372
D375	157	138	D374
D377	158	139	D376
D379	159	140	D378
D381	160	141	D380
D383	161	142	D382
D385	162	143	D384
D387	163	144	D386
D389	164	145	D388
D391	165	146	D390
D393	166	147	D392
D395	167	148	D394
D397	168	149	D396
D399	169	150	D398
D401	170	151	D400
D403	171	152	D402
D405	172	153	D404
D407	173	154	D406
D409	174	155	D408
D411	175	156	D410
D413	176	157	D412
D415	177	158	D414
D417	178	159	D416
D419	179	160	D418
D421	180	161	D420
D423	181	162	D422
D425	182	163	D424
D427	183	164	D426
D429	184	165	D428
D431	185	166	D430
D433	186	167	D432
D435	187	168	D434
D437	188	169	D436
D439	189	170	D438
D441	190	171	D440
D443	191	172	D442
D445	192	173	D444
D447	193	174	D446
D449	194	175	D448
D451	195	176	D450
D453	196	177	D452
D455	197	178	D454
D457	198	179	D456
D459	199	180	D458
D461	200	181	D460
D463	201	182	D462
D465	202	183	D464
D467	203	184	D466
D469	204	185	D468
D471	205	186	D470
D473	206	187	D472
D475	207	188	D474
D477	208	189	D476
D479	209	190	D478
D481	210	191	D480
D483	211	192	D482
D485	212	193	D484
D487	213	194	D486
D489	214	195	D488
D491	215	196	D490
D493	216	197	D492
D495	217	198	D494
D497	218	199	D496
D499	219	200	D498
D501	220	201	D500
D503	221	202	D502
D505	222	203	D504
D507	223	204	D506
D509	224	205	D508
D511	225	206	D510
D513	226	207	D512
D515	227	208	D514
D517	228	209	D516
D519	229	210	D518
D521	230	211	D520
D523	231	212	D522
D525	232	213	D524
D527	233	214	D526
D529	234	215	D528
D531	235	216	D530
D533	236	217	D532
D535	237	218	D534
D537	238	219	D536
D539	239	220	D538
D541	240	221	D540
D543	241	222	D542
D545	242	223	D544
D547	243	224	D546
D549	244	225	D548
D551	245	226	D550
D553	246	227	D552
D555	247	228	D554
D557	248	229	D556
D559	249	230	D558
D561	250	231	D560
D563	251	232	D562
D565	252	233	D564
D567	253	234	D566
D569	254	235	D568
D571	255	236	D570
D573	256	237	D572
D575	257	238	D574
D577	258	239	D576
D579	259	240	D578
D581	260	241	D580
D583	261	242	D582
D585	262	243	D584
D587	263	244	D586
D589	264	245	D588
D591	265	246	D590
D593	266	247	D592
D595	267	248	D594
D597	268	249	D596
D599	269	250	D598
D601	270	251	D600
D603	271	252	D602
D605	272	253	D604
D607	273	254	D606
D609	274	255	D608
D611	275	256	D610
D613	276	257	D612
D615	277	258	D614
D617	278	259	D616
D619	279	260	D618
D621	280	261	D620
D623	281	262	D622
D625	282	263	D624
D627	283	264	D626
D629	284	265	D628
D631	285	266	D630
D633	286	267	D632
D635	287	268	D634
D637	288	269	D636
D639	289	270	D638
D641	290	271	D640
D643	291	272	D642
D645	292	273	D644
D647	293	274	D646
D649	294	275	D648
D651	295	276	D650
D653	296	277	D652
D655	297	278	D654
D657	298	279	D656
D659	299	280	D658
D661	300	281	D660
D663	301	282	D662
D665	302	283	D664
D667	303	284	D666
D669	304	285	D668
D671	305	286	D670
D673	306	287	D672
D675	307	288	D674
D677	308	289	D676
D679	309	290	D678
D681	310	291	D680
D683	311	292	D682
D685	312	293	D684
D687	313	294	D686
D689	314	295	D688
D691	315	296	D690
D693	316	297	D692
D695	317	298	D694
D697	318	299	D696
D699	319	300	D698
D701	320	301	D700
D703	321	302	D702
D705	322	303	D704
D707	323	304	D706
D709	324	305	D708
D711	325	306	D710
D713	326	307	D712
D715	327	308	D714
D717	328	309	D716
D719	329	310	D718
D721	330	311	D720
D723	331	312	D722
D725	332	313	D724
D727	333	314	D726
D729	334	315	D728
D731	335	316	D730
D733	336	317	D732
D735	337	318	D734
D737	338	319	D736
D739	339	320	D738
D741	340	321	D740
D743	341	322	D742
D745	342	323	D744
D747	343	324	D746
D749	344	325	D748
D751	345	326	D750
D753	346	327	D752
D755	347	328	D754
D757	348	329	D756
D759	349	330	D758
D761	350	331	D760
D763	351	332	D762
D765	352	333	D764
D767	353	334	D766
D769	354	335	D768

## Legacy products

Eagle Technology produces, supplies and supports our complete range of legacy ISA boards. This is in keeping with our policy not to discontinue, phase out or EOL any product designed by Eagle Technology.\*

If you require information on, pricing for, or would like to order any of the following legacy products, please contact us or visit the Eagle Technology website.



PC-14A  
PC-14B  
PC-36C  
PC-62C  
PC-63C  
PC-65  
PC-192A

PC-30G  
PC-30GA  
PC-30GAS4  
PC-30GAS16  
PC-30GS4  
PC-30GS16  
PC-30F  
PC-30FA  
PC-30FAS4

PC-30FAS16  
PC-30FS4  
PC-30FS16  
PC-66C-8  
PC-66C-12  
PC-68-1  
PC-68-2  
PC-68-3  
PC-68-4

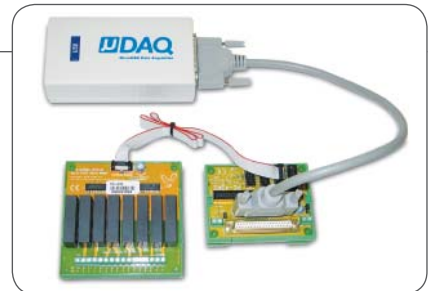
PC-73C-T  
PC-73C-R

\* This is subject to semi-conduct availability and a minimum order quantity.

## Specialized applications

### Local Examples

**Eagle Data acquisition products are being used in many interesting and unusual applications.**

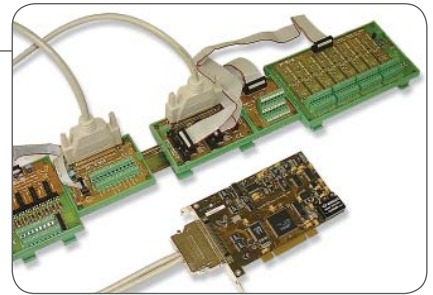


- University of Cape Town uses **Eagle Technology products for advanced Electrical Resistance Tomography (ERT)** system.
  - Electrical Resistance Tomography (ERT) is a non-invasive technique for determining conductivity distribution within a measuring vessel.
  - This distribution is often directly related to distribution of solid or gas in a chemical reactor, mixing vessel or pipeline.
  - The measurements are made by a systematic electrical stimulation of pairs of peripheral electrodes and measuring the resultant voltages developed at other electrodes.
  - The data sets are then "reconstructed" to yield the conductivity distribution. Reconstruction techniques have been developed for both 2D and 3D reconstructions.
  - For a simple 2D reconstruction using a 16 electrode system 256 data points are recorded for each reconstruction frame and require a precision of at least 12 bit resolution.
  - The instrument developed at UCT can record up to 1000 frames/second and this data has to be transferred to a PC for reconstruction and real time display.
  - As a laptop computer is often used for this purpose a USB connected device was required to perform the I/O functions.
  - To achieve these requirements an Eagle Technology USB-30B16 device was embedded in the UCT instrument.
  - Custom software has also been written using the EDRE software development kit provided with Eagle Technology products.
- One of our more **interesting applications of the USB and UDAQlite products** comes from the University of the Western Cape where Mr Andries Burger is sampling cardiovascular variables using a modified Langendorff perfusion system to study the effects of indigenous plants and other chemical substances on isolated rat hearts and smooth muscle preparations. It is also used for open circuit metabolic rate and spirometric determinations and other applications in their Medical Bioscience laboratories.
- Our digital IO products are being successfully used on Toll Plazas** for the control of all the electrical functions of the booms, lights, etc. Mr Franco Grisselle of Kapsch TrafficCom SA says these systems are being successfully used in South Africa and internationally.
- Professor CW Cruywagen of Stellenbosch University approached Eagle Technology with a very interesting request for a pressure measurement application. **Eagle Technology developed a pressure transducer and interface board** to connect to the USB Microdaq using miniature pressure transducers from IC Sensors. This is being successfully used to measure the pressure increase in vials containing animal feed material and simulated digestive processes providing valuable information about the animal feeds being tested.

## 9 Accessories

### Cables and Accessories

*Eagle Technology supplies a wide range of Cables, Screw Terminal Adapters and Accessories to complement it's Data Acquisition products. These accessories allow you to enhance your Eagle Technology products by adding extra functionality and ease of use.*



#### IDC10

10-way IDC ribbon cable with (F) 2.54mm connectors -0.5m



#### DB25M/F

DB25 (M) to DB25 (F) 1m screened cable -0.5m



#### SCSI-D100MM

100way SCSI-II DSub (M) to (M) -1m



#### IDC16

16-way IDC ribbon cable with (F) 2.54mm connectors -0.5m



#### DB37M/F

DB37 (M) to DB37 (F) 1m screened cable -1m



#### Y-Cable1

68way SCSI-II DSub (F) to (2x) DB37 (F) -1m



#### IDC20

20-way IDC ribbon cable with (F) 2.54mm connectors -0.5m



#### DB37F/F

DB37 (F) to DB37 (F) 1m screened cable -1m



#### Y-Cable2

50way DB50 (M) to (2x) DB25 (M) -1m



#### IDC26

26-way IDC ribbon cable with (F) 2.54mm connectors -1m



#### DB50M/F

DB50 (M) to DB50 (F) 1m screened cable -1m



#### Y-Cable3

100way SCSI-II DSub (M) to (1x) DB37 (F) -1m



#### IDC40

40-way IDC ribbon cable with (F) 2.54mm connectors -1m



#### DB50F/F

DB50 (F) to DB50 (F) 1m screened cable -1m



#### Y-Cable4

68way SCSI-II DSub (F) to (2x) DB37 (F) -1m



#### IDC50

50-way IDC ribbon cable with (F) 2.54mm connectors -1m



#### SCSI-C50MDB50F

50way SCSI-II Centronics (M) to DB50 (F) -1m



#### Y-Cable5

DB37 to 3 x ID10 cables



#### IDC26-1

26-way IDC ribbon cable with (F) 2.00mm connectors -1m



#### SCSI-C50MM

SCSI-II Centronics (M) to (M) screened cable -1m



#### CAB-SRL IPAQ

Serial to iPAQ cable - allows connection of the Serial MicroDAQ series to an iPAQ PDA



#### IDC40-1

40-way IDC ribbon cable with (F) 2.00mm connectors -0.5m



#### SCSI-C68MM

68way DB50 (M) to (M) SCSI-Centronics screened cable -1m



#### DB9F/F

DB9 female to female cable for RS232 MicroDAQ series



#### DB9M/F

9-way DB9 (M) to DB9 (F) 1m screened cable -1m



#### SCSI-C68MF

68way SCSI-II DSub (M) to (F) -1m



#### DB15M/F

15-way DB15 (M) to DB15 (F) 1m screened cable -1m



#### SCSI-D68MF-S

68way SCSI-II DSub (M) to (F) -short





## SCREW TERMINAL Adapters

*Our Screw Terminal Adapters are supplied with DIN-Rail bases making them DIN-Rail mountable. Alternatively, you can mount them using their four 3.2mm diameter mounting holes.*

*The dimensions shown below exclude the DIN-Rail base.*



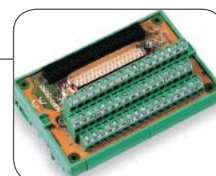
### ADPT-910

DB9 (F) & IDC10 (M) to 11way Screw Terminal Adapter  
Dimensions: 72(W) x 54(L) x 33(H) mm



### ADPT-5050

DB50 (M) & IDC50 (M) to 51way Screw Terminal Adapter  
Dimensions: 72(W) x 110(L) x 33(H) mm



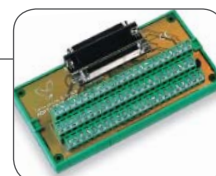
### ADPT-20

IDC20 (M) to 21way Screw Terminal Adapter  
Dimensions: 72(W) x 64(L) x 33(H) mm



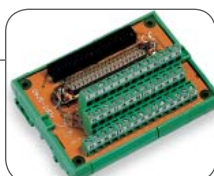
### ADPT-6868SCD

SCSI-II 68 (F) Centronics & SCSI-II 68 (F) DSub to 69way Screw Terminal Adapter  
Dimensions: 72(W) x 143.75(L) x 33(H) mm



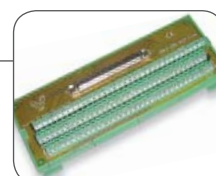
### ADPT-3740

DB37 (M) & IDC40 (M) to 41way Screw Terminal Adapter  
Dimensions: 72(W) x 99(L) x 33(H) mm



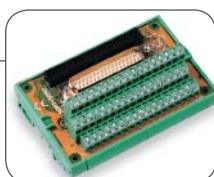
### ADPT-100SD

SCSI-II 100 (F) DSub to 102way Screw Terminal Adapter  
Dimensions: 72(W) x 200(L) x 33(H) mm



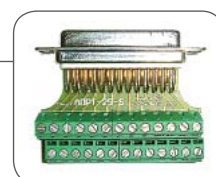
### ADPT-5050SC

SCSI-II 50 (F) Centronics & IDC50 (M) to 51way Screw Terminal Adapter  
Dimensions: 72(W) x 110(L) x 33(H) mm



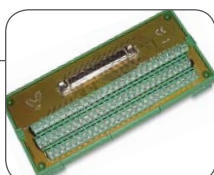
### ADPT-25S

MicroDAQ Screw Terminal Adapter - Short  
Dimensions: 53(W) x 42.5(L) x 20(H) mm



### ADPT-80SD

SCSI-II 80 (F) DSub to 81way Screw Terminal Adapter  
Dimensions: 72(W) x 166.25(L) x 33(H) mm



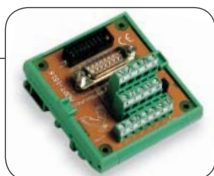
### ADPT-25M

MicroDAQ Screw Terminal Adaptor - Medium  
Dimensions: 53(W) x 59(L) x 20(H) mm



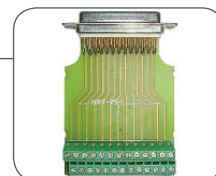
### ADPT-1516

DB15 (M) & IDC16 (M) to 17 way Screw Terminal Adapter  
Dimensions: 72(W) x 64(L) x 33(H) mm



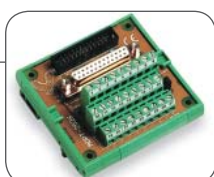
### ADPT-25L

MicroDAQ Screw Terminal Adaptor - Long  
Dimensions: 53(W) x 77.5(L) x 20(H) mm



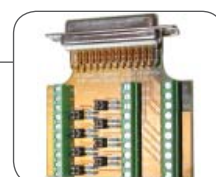
### ADPT-2526

DB25 (F) & IDC26 (M) to 27way Screw Terminal Adapter  
Dimensions: 72(W) x 76(L) x 33(H) mm



### ADPT-25IV

MicroDAQ 26/30 + PCI-730/E Screw Terminal Adaptor (voltage - current)  
Dimensions: 62(W) x 65(L) x 15(H) mm



### ADPT-25103

MicroDAQ-26/30 + PCI-730/E  
DIO DB25 (F) to 3x IDC10 (M) Adaptor  
Dimensions: 76(W) x 68(L) x 15(H) mm



### ADPT-37103

PC-36A/C; PCI-36C + PCI-836A/C  
DIO DB37 (F) to 3x IDC10 (M) Adaptor  
Dimensions: 76(W) x 68(L) x 15(H) mm



## MULTI-I/O Adapters

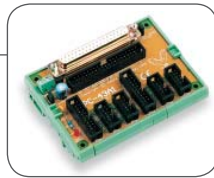
*Various combinations of Adapters and I/O Application Modules can be connected to our Digital & Analog Multi-I/O Connectors. Dimensions shown below exclude DIN-rail base.*



### Digital Multi I/O Connectors

#### PC-43A1

1x 16ch; (2x) 8ch Digital O/P Connectors  
(1x) 16ch; (2x) 8ch Digital I/P Connectors  
Dimensions: 72(W) x 99(L) x 19(H) mm



#### PC-43A2

(1x) 16ch; (3x) 8ch Digital I/O Connectors  
Dimensions: 72(W) x 99(L) x 19(H) mm



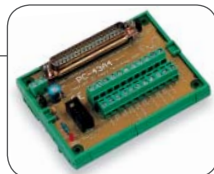
#### PC-43A3

(1x) 16ch; (3x) 8ch Digital I/P Connectors  
Counter Timer Screw Terminal  
Dimensions: 72(W) x 99(L) x 19(H) mm



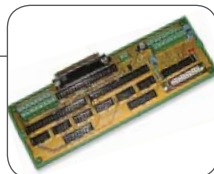
#### PC-43A4

8 Independent Digital I/O Connectors  
Digital Control I/O Screw Terminal  
Dimensions: 72(W) x 99(L) x 19(H) mm



#### PC-43A5

(3x) 8ch; (1x) 16ch; (1x) 24ch Dig O/P Connectors  
(3x) 8ch; (1x) 16ch; (1x) 24ch Dig I/P Connectors  
Counter/Timer Screw Terminal  
Dimensions: 72(W) x 222.5(L) x 23(H) mm



### Analog Multi I/O Connectors

#### PC-52A1

(2x) 8ch; (4x) 4ch Analog I/P Connectors  
(1x) 2ch Analog O/P Connectors  
Analog EXT REF & I/P Sense Screw T.  
Dimensions: 72(W) x 110(L) x 19(H) mm



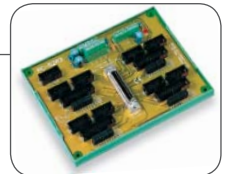
#### PC-52A2

(2x) 8ch; (4x) 4ch Analog I/P Connectors  
(1x) 4ch Analog O/P Connectors  
Digital EXT TRIG & EXT CLK Screw Term.  
Dimensions: 72(W) x 110(L) x 19(H) mm



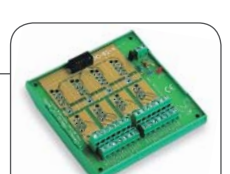
#### PC-52A3

(4x) 8ch; (8x) 4ch Analog I/P Connectors  
(1x) 4ch Analog O/P Connectors  
(1x) 4ch Analog O/P Sense Screw T.  
Digital EXT TRIG & EXT CLK Screw T.  
Dimensions: 107.5(W) x 143.5(L) x 23(H) mm



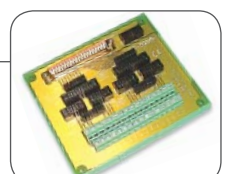
#### PC-52A4

(8x) 8ch Analog I/P Connectors  
(1x) 2ch Analog O/P Connectors  
Analog EXT REF & I/P Sense Screw T.



#### PC-52A5

(2x) 8ch; (4x) 4ch Analog I/P Connectors  
(1x) 2ch Analog O/P Connectors  
Dimensions: 107.5(W) x 125(L) x 23(H) mm



## Isolated I/O Modules

**These high quality screw terminals are designed for easy field wiring. All digital modules connect to our digital multi-I/O connectors. All analog modules connect to our multi-I/O connectors. The dimensions shown below exclude the DIN-Rail base.**

### Solid State Relays AC&DC (Digital)

- PC-37D** 8ch Solid State Opto-22 Relay  
107.5(W) x 108.5(L) x 28(H) mm
- PC-37E** 16ch Solid State Opto-22 Relay  
with 16ch DIG O/P & 16ch DIG I/P  
Connectors  
107.5(W) x 214.5(L) x 28(H) mm
- PC-37F** 24ch Solid State Opto-22 Relay  
107.5(W) x 318.5(L) x 28(H) mm
- Each relay requires 5V@18mA



### G4 Carrier Boards (Digital)

- PC-51-8** 8ch Carrier Board for (8x)  
Opto-22 DIG I/O Modules  
107.5(W) x 125(L) x 48(H) mm
- PC-51-16\*** 16ch Carrier Board for (16x)  
Opto-22 DIG I/O Modules with  
6ch DIG O/P & 16ch DIG I/P Conn
- PC-51-24\*** 24ch Carrier Board for (24x)  
Opto-22 DIG I/O Modules
- For use with Opto-22 Modules  
(see below)
- Onboard Fuse Tester



### MP Series Solid State Relays

AC MODEL Number	NOMINAL AC Line Voltage	NOMINAL Current Rating	1 cycle Surge (Amps) Peak	Nom Signal I/P Resist- ance (Ohms)	Signal Pick-up Voltage (24 Allowed)	Signal Drop-out Voltage	Peak Repetitive Voltage Max	Max O/P Voltage Drop	Off-State Leakage mA Max	Operating Voltage Range (Volts AC)	I2t Rating t=8.3 (ms)	qjc* °C/Watt	
MP120D2	120	2 Amps	20	1000	3 VDC	1 VDC	600	1.6 volts	5 mA	12-140	2	20	1.2
MP120D4	120	4 Amps	85	1000	3 VDC	1 VDC	600	1.6 volts	5 mA	12-140	30	6.5	1.2
MP240D2	240	2 Amps	20	1000	3 VDC	1 VDC	600	1.6 volts	5 mA	24-280	2	20	1.2
MP240D4	240	4 Amps	85	1000	3 VDC	1 VDC	600	1.6 volts	5 mA	24-280	30	6.5	1.2
MP380D4	380	4 Amps	85	1000	3 VDC	1 VDC	800	1.6 volts	5 mA	24-420	30	6.5	1.2
DC MODEL Number	Operating Voltage Range	Forward Voltage Drop	Nominal Current Rating	Off-State Blocking	Signal Pick-up Voltage (24 Allowed)	Signal Drop-out Voltage	Signal Input Im- pedance	1 Second Surge	Operating Temp Range	Isolation Voltage	Off-State Leakage	qjc* = Thermal resistance junc- tion to base. Max junction temp is 110°C	
DC60MP	5-60 VDC	1.5V @ 3A	3 amps	60 VDC	3 VDC	1 VDC	1000 ohms	5 amps	40-100°C	4000Vrms	1mA max		
DC200MP	5-200 VDC	1.5V @ 1A	1 amp	250 VDC	3VDC	1 VDC	1000 ohms	2 amps	40-100°C	4000Vrms	1mA max		

### G4 Series Opto-22 Industry Standard Digital I/O Modules

#### DC INPUT

Used to detect on/off DC voltage levels. All DC input modules except the G4IDC5K and G4IDC5D are designed with filtering on the input and a hysteresis amplifier, providing high noise rejection and transient-free, "clean" switching. The G4IDC5K is a fast-switching module used to detect signals produced by photo-electric switches and TTL devices. The low-cost G4IDC5D is used for data acquisition. The G4IDC5MA is a special module featuring a manual-on/manual-off/automatic switch, ideal for diagnostic testing of control applications. Typical applications: Sensing the presence of voltage, and sensing contact closure from sources such as proximity switches, limit switches, selector switches, push buttons, photoelectric switches, and TTL-compatible devices.

- 4000Vrms optical isolation
- Meets IEEE Surge Withstand Specification (IEEE-472)
- Built-in LED status indicator
- UL recognized, CSA certified, CE approved
- Operating Temperature: -30°C to 70°C
- Passes NEMA Showering Arc Test (ICS 2-230)
- Built-in filtering (transient suppression and noise rejection)

Model	VDC	VDC Logic	Note
G4IDC5	10-32	5	
G4IDC5B	4-16	5	High Speed
G4IDC5D	2.5-28	5	
G4IDC5G	35-60	5	
G4IDC5K	2.5-16	5	Very High Speed
G4IDC5MA	10-32	5	with Manual/Auto Switch

#### DC OUTPUT

Used to control or switch DC loads. The G4ODC5MA is a special module featuring a manual-on/manual-off/ automatic switch, ideal for diagnostic testing of control applications. Typical applications: Switching loads such as DC relays, solenoids, motor starters, lamps, and indicators.

- 4000Vrms optical isolation
- Meets IEEE Surge Withstand Specification (IEEE-472)
- Built-in LED status indicator
- UL recognized, CSA certified, CE approved
- Operating Temperature: -30°C to 70°C
- Passes NEMA Showering Arc Test (ICS 2-230)
- Removable fuse
- Ability to withstand one-second surge of 5 amps

Model	VDC	VDC Logic	Note
G4ODC5	5-60	5	
G4ODC5A	5-200	5	
G4ODC5MA	5-60	5	with Manual/Auto Switch



**DC Reed Relay OUTPUT**

Two dry-contact, low-contact-resistance DC output modules, the G40DC5R and the G40DC5R5. The G40DC5R5 is a single-pole, single-throw, normally open mechanical relay. The G40DC5R5 is a single-pole, single-throw, normally closed mechanical relay. Typical applications: Analog signal and communication line multiplexing.

- Operating Temperature: -30°C to 70°C
- Meets IEEE Surge Withstand Specification (IEEE-472)
- Contact switching current of 0.5 A max
- CE approved
- Contact resistance of 200 mΩ max
- Passes NEMA Showering Arc Test (ICS 2-230)
- Mechanical life of 5x 10<sup>6</sup> cycles
- Coil 5 VDC at 14mA
- Contact switching voltage of 100VDC or 130VAC max

Model	Description	VDC Logic	Note
G40DC5R	Reed Relay Output	5	
G40DC5R5	Reed Relay Output	5	NC

**AC OUTPUT**

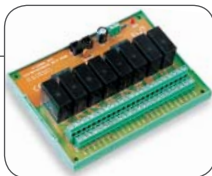
Used to control or switch AC loads. Each module features zero voltage turn-on and zero current turn-off. All AC output modules are equivalent to single-pole, single-throw, normally open contacts, except the G40AC5A5, which is equivalent to a single-pole, single-throw, normally closed contact. Typical applications: Switching loads such as AC relays, solenoids, motor starters, heaters, lamps and indicators.

- 4000Vrms optical isolation
- Meets IEEE Surge Withstand Specification (IEEE-472)
- Built-in LED status indicator
- UL recognized, CSA certified, CE approved
- Operating Temperature: -30°C to 70°C
- Passes NEMA Showering Arc Test (ICS 2-230)
- Current rating: 3 amps at 45°C
- Ability to withstand one-cycle surge of 80 amps
- Removable fuse
- Built-in filtering (transient suppression and noise rejection)

Model	VAC	VDC Logic	Note
G40AC5	12-140	5	
G40AC5A	24-280	5	
G40AC5A5	24-280	5	NC
G40AC5MA	12-140	5	with Manual/Auto Switch
G40AC5AMA 24-280	5		with Manual/Auto Switch

**E/Mech Relays (DPDT) 2x 5A (Digital)**

- PC-38G** 8ch Electro Mechanical Relay  
107.5(W) x 143.5(L) x 30(H) mm
- PC-38C\*** 16ch Electro Mechanical Relay  
with 16ch DIG O/P & 16ch DIG I/P Connectors
- PC-38D\*** 24ch Electro Mechanical Relay  
Each relay requires 12VDC@0.56W

**Digital I/O Drivers (85mA) (Digital)**

- PC-38V** 8ch DIG I/O Driver  
72(W) x 64(L) x 23(H) mm
- PC-38W** 16ch DIG I/O Driver with 16ch DIG O/P & 16ch DIG I/P Conn.  
72(W) x 166.25(L) x 23(H) mm
- PC-38X** 24ch DIG I/O Driver  
72(W) x 121.25(L) x 23(H) mm

**Multiple Combination (Digital)**

- PC-43D** 8ch Opto-Isolated Inputs;  
8ch DIG I/O Drivers & 8ch DIG I/O Connectors and Connectors for any other 8ch DIG I/O Module  
107.5(W) x 143.5(L) x 23(H) mm

**AC INPUT**

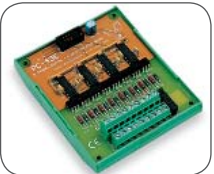
Used to detect on/off AC voltage levels. Typical applications: Sensing the presence of voltage, and sensing contact closure from sources such as proximity switches, limit switches, float switches, selector switches, push buttons, toggle switches, and thermostats.

- 4000Vrms optical isolation
- Meets IEEE Surge Withstand Specification (IEEE-472)
- Built-in LED status indicator
- UL recognized, CSA certified, CE approved
- Operating Temperature: -30°C to 70°C
- Passes NEMA Showering Arc Test (ICS 2-230)
- Built-in filtering (transient suppression and noise rejection)

Model	VAC	VDC Logic	Note
G4IAC5	90-140	5	
G4IAC5A	180-280	5	
G4IAC5MA	90-140	5	with Manual/Auto Switch

**Opto-Isolators 0-28V (Digital)**

- PC-43E** 8ch Opto-Isolated Inputs  
107.5(W) x 90(L) x 23(H) mm
- PC-43B** 16ch Opto-Isolated Inputs with 16ch DIG O/P & 16ch DIG I/P Connectors  
107.5(W) x 160(L) x 23(H) mm
- PC-43C** 24ch Opto-Isolated Inputs  
107.5(W) x (L) x (H) mm
- Isolation: 2.5KV (min)
- Channel Throughput: 15KHz

**Reed Relays SPST (15W) (Digital)**

- PC-38H** 8ch Reed Relay  
72(W) x 76(L) x 23(H) mm
- PC-38E\*** 16ch Reed Relay with 16ch DIG O/P & 16ch DIG I/P Connectors
- PC-38F\*** 24ch Reed Relay

**5B Carrier Boards (Analog)**

- PC-52-2** 2ch Carrier Board  
107.5(W) x 71.5(L) x 67(H) mm
- PC-52-4** 4ch Carrier Board  
107.5(W) x 108.5(L) x 67(H) mm
- PC-52-8** 8ch Carrier Board  
107.5(W) x 195(L) x 67(H) mm



- For use with 5B Compatible Modules (available on request)
- External +5VDC Power Supply required
- 5B Module bridge supplied with each channel



\* Available on request

## 5B Series: ANALOG Isolation Signal Conditioning Modules

## ANALOG VOLTAGE INPUT MODULES, NARROW BANDWIDTH (4Hz BW)

MODEL	INPUT RANGE	OUTPUT RANGE
SCMS5B30-01	±10mV	±5V
SCMS5B30-02	±50mV	±5V
SCMS5B30-03	±100mV	±5V
SCMS5B30-04	±10mV	0 to +5V
SCMS5B30-05	±50mV	0 to +5V
SCMS5B30-06	±100mV	0 to +5V

SCMS5B31-01	±1mV	±5V
SCMS5B31-02	±5mV	±5V
SCMS5B31-03	±10mV	±5V
SCMS5B31-04	±1mV	0 to +5V
SCMS5B31-05	±5mV	0 to +5V
SCMS5B31-06	±10mV	0 to +5V
SCMS5B31-07	±20mV	±5V
SCMS5B31-08	±20mV	0 to +5V
SCMS5B31-09	±40mV	±5V
SCMS5B31-10	±40mV	0 to +5V

## ANALOG CURRENT INPUT MODULES, 4Hz AND 1kHz BANDWIDTH

MODEL	INPUT RANGE	OUTPUT RANGE	BW
SCMS5B32-01	4 to 20mA	0 to +5V	4Hz
SCMS5B32-02	0 to 20mA	0 to +5V	4Hz
SCMS5B32-11	4 to 20mA	0 to +5V	1kHz
SCMS5B32-12	4 to 20mA	±5V	1kHz
SCMS5B32-13	4 to 20mA	0 to +10V	1kHz
SCMS5B32-14	4 to 20mA	±10V	1kHz

## ISOLATED TRUE RMS INPUT MODELS

MODEL	INPUT (rms)	OUTPUT (dc)
SCMS5B33-01	0 - 100mV	0 - 5V
SCMS5B33-02	0 - 1V	0 - 5V
SCMS5B33-03	0 - 10V	0 - 5V
SCMS5B33-04	0 - 150V	0 - 5V
SCMS5B33-05	0 - 300V	0 - 5V
SCMS5B33-06	0 - 1A	0 - 5V
SCMS5B33-07	0 - 5A	0 - 5V

SCMS5B33-01B	0 - 100mV	0 - 1mA
SCMS5B33-02B	0 - 1V	0 - 1mA
SCMS5B33-03B	0 - 10V	0 - 1mA
SCMS5B33-04B	0 - 150V	0 - 1mA
SCMS5B33-05B	0 - 300V	0 - 1mA
SCMS5B33-06B	0 - 1A	0 - 1mA
SCMS5B33-07B	0 - 5A	0 - 1mA

SCMS5B33-01C	0 - 100mV	4 - 20mA
SCMS5B33-02C	0 - 1V	4 - 20mA
SCMS5B33-03C	0 - 10V	4 - 20mA
SCMS5B33-04C	0 - 150V	4 - 20mA
SCMS5B33-05C	0 - 300V	4 - 20mA
SCMS5B33-06C	0 - 1A	4 - 20mA
SCMS5B33-07C	0 - 5A	4 - 20mA

SCMS5B33-01D	0 - 100mV	0 - 10V
SCMS5B33-02D	0 - 1V	0 - 10V
SCMS5B33-03D	0 - 10V	0 - 10V
SCMS5B33-04D	0 - 150V	0 - 10V
SCMS5B33-05D	0 - 300V	0 - 10V
SCMS5B33-06D	0 - 1A	0 - 10V
SCMS5B33-07D	0 - 5A	0 - 10V

SCMS5B33-01E	0 - 100mV	0 - 20mA
SCMS5B33-02E	0 - 1V	0 - 20mA
SCMS5B33-03E	0 - 10V	0 - 20mA
SCMS5B33-04E	0 - 150V	0 - 20mA
SCMS5B33-05E	0 - 300V	0 - 20mA
SCMS5B33-06E	0 - 1A	0 - 20mA
SCMS5B33-07E	0 - 5A	0 - 20mA

## LINEARIZED 2- OR 3- WIRE RTD INPUT MODULES (0 to +5V output, 4Hz BW)

MODEL	TYPE***	INPUT RANGE
SCMS5B34-01	100Ω Pt	-100°C to +100°C
SCMS5B34-02	100Ω Pt	0°C to +100°C
SCMS5B34-03	100Ω Pt	0°C to +200°C
SCMS5B34-04	100Ω Pt	0°C to +600°C

SCMS5B34C-01	10Ω Cu at 0°C	0°C to +120°C
SCMS5B34C-02	10Ω Cu at 25°	0°C to +120°C
SCMS5B34C-03	10Ω Cu at 0°	0°C to +160°C

SCMS5B34N-01	120Ω Ni	0°C to +300°C
--------------	---------	---------------

## LINEARIZED 4- WIRE RTD INPUT MODULES (0 to +5V output, 4Hz BW)

MODEL	TYPE***	INPUT RANGE
SCMS5B35-01	100Ω Pt	-100°C to +100°C
SCMS5B35-02	100Ω Pt	0°C to +100°C
SCMS5B35-03	100Ω Pt	0°C to +200°C
SCMS5B35-04	100Ω Pt	0°C to +600°C

SCMS5B35C-01	10Ω Cu at 0°C	0°C to +120°C
SCMS5B35C-02	10Ω Cu at 25°	0°C to +120°C
SCMS5B35C-03	10Ω Cu at 0°	0°C to +160°C

SCMS5B35N-01	120Ω Ni	0°C to +300°C
--------------	---------	---------------

## POTENTIOMETER INPUT MODULES (4Hz BW)

MODEL	INPUT RANGE	OUTPUT RANGE*
SCMS5B36-01	0 to 100Ω	0 to +5V
SCMS5B36-02	0 to 500Ω	0 to +5V
SCMS5B36-03	0 to 1KΩ	0 to +5V
SCMS5B36-04	0 to 10KΩ	0 to +5V

## THERMOCOUPLE INPUT MODELS (0 to +5V output\*, 4Hz BW)

MODEL	TYPE**	INPUT RANGE
SCMS5B37J	J	-100°C to +760°C
SCMS5B37K	K	-100°C to +1350°C
SCMS5B37T	T	-100°C to +400°C
SCMS5B37E	E	0°C to +900°C
SCMS5B37R	R	0°C to +1750°C
SCMS5B37S	S	0°C to +1750°C
SCMS5B37B	B	0°C to +1800°C
SCMS5B37C	C	-100°C to +1300°C

## STRAIN GAUGE INPUT MODELS (±5V output\*, 4Hz OR 10kHz BW)

MODEL	INPUT	EXCITATION
SCMS5B38-01	±10mV Full Bridge Input, (3mV/V) 100 to 10KΩ	3.333V
SCMS5B38-02	±30mV Full Bridge Input, (3mV/V) 300 to 10KΩ	10.000V
SCMS5B38-03	±10mV Half Bridge Input, (3mV/V) 100 to 10KΩ	3.333V
SCMS5B38-04	±30mV Half Bridge Input, (3mV/V) 300 to 10KΩ	10.000V
SCMS5B38-05	±20mV Full Bridge Input, (3mV/V) 300 to 10KΩ	10.000V
SCMS5B38-06	±33.3mV Full Bridge Input, (3mV/V) 100 to 10KΩ	3.333V
SCMS5B38-07	±100mV Full Bridge Input, (3mV/V) 300 to 10KΩ	10.000V

## ANALOG CURRENT OUTPUT MODULES, 400Hz AND 1kHz BANDWIDTH

MODEL	INPUT RANGE	OUTPUT RANGE	BW
SCMS5B39-01	0 to +5V	4 to 20mA	400Hz
SCMS5B39-02	±5V	4 to 20mA	400Hz
SCMS5B39-03	0 to +5V	0 to 20mA	400Hz
SCMS5B39-04	±5V	0 to 20mA	400Hz
SCMS5B39-05	0 to 20mA	0 to 20mA	400Hz
SCMS5B39-07	±10V	±20mA	275Hz
SCMS5B392-01	0 to +5V	4 to 20mA	1kHz
SCMS5B392-02	±5V	4 to 20mA	1kHz
SCMS5B392-03	0 to +10V	4 to 20mA	1kHz
SCMS5B392-04	±10V	4 to 20mA	1kHz

## MATCHED PAIR SERVO/MOTOR CONTROLLER DRIVERS (1kHz BW)

MODEL	INPUT RANGE	INTERFACE	OUTPUT RANGE
SCMS5B392-0111	0 to ±5V	4 to 20mA	0 to +5V
SCMS5B392-0212	±5V	4 to 20mA	±5V
SCMS5B392-0313	0 to ±10V	0 to 20mA	0 to +5V
SCMS5B392-0414	±10V	0 to 20mA	±10V

## ANALOG VOLTAGE INPUT MODULES, WIDE BANDWIDTH (10kHz BW)

MODEL	INPUT RANGE	OUTPUT RANGE
SCMS5B40-01	±10mV	±5V
SCMS5B40-02	±50mV	±5V
SCMS5B40-03	±100mV	±5V
SCMS5B40-04	±10mV	0 to +5V
SCMS5B40-05	±50mV	0 to +5V
SCMS5B40-06	±100mV	0 to +5V

SCMS5B41-01	±1V	±5V
SCMS5B41-02	±5V	±5V
SCMS5B41-03	±10V	±5V
SCMS5B41-04	±1V	0 to +5V
SCMS5B41-05	±5V	0 to +5V
SCMS5B41-06	±10V	0 to +5V
SCMS5B41-07	±20V	±5V
SCMS5B41-08	±20V	0 to +5V
SCMS5B41-09	±40V	±5V
SCMS5B41-10	±40V	0 to +5V

## GENERAL PURPOSE INPUT MODULES, DC EXCITATION

MODEL	MAXIMUM INPUT	OUTPUT*
SCMS5B43-01	±1V	±5V
SCMS5B43-02	±2V	±5V
SCMS5B43-03	±3V	±5V
SCMS5B43-04	±4V	±5V
SCMS5B43-05	±5V	±5V
SCMS5B43-06	±6V	±5V
SCMS5B43-07	±7V	±5V
SCMS5B43-08	±8V	±5V
SCMS5B43-09	±9V	±5V
SCMS5B43-10	±10V	±5V

## FREQUENCY INPUT MODULES

MODEL	INPUT RANGE	OUTPUT RANGE*
SCMS5B45-01	0 to 500Hz	0 to +5V
SCMS5B45-02	0 to 1kHz	0 to +5V
SCMS5B45-03	0 to 3kHz	0 to +5V
SCMS5B45-04	0 to 5kHz	0 to +5V
SCMS5B45-05	0 to 10kHz	0 to +5V
SCMS5B45-06	0 to 25kHz	0 to +5V
SCMS5B45-07	0 to 50kHz	0 to +5V
SCMS5B45-08	0 to 100kHz	0 to +5V

## LINEARIZED THERMOCOUPLE INPUT MODULES (0 to +5V output\*, 4Hz BW)

MODEL	TYPE**	INPUT RANGE
SCMS5B47J-01	J	0°C to +760°C
SCMS5B47J-02	J	-100°C to +300°C
SCMS5B47J-03	J	0°C to +500°C
SCMS5B47K-04	K	0°C to +1000°C
SCMS5B47K-05	K	0°C to +500°C
SCMS5B47T-06	T	-100°C to +400°C
SCMS5B47T-07	T	0°C to +200°C
SCMS5B47E-08	E	0°C to +1000°C
SCMS5B47R-09	R	+500°C to +1750°C
SCMS5B47S-10	S	+500°C to +1750°C
SCMS5B47B-11	B	+500°C to +1800°C
SCMS5B47J-12	J	-100°C to +760°C
SCMS5B47K-13	K	-100°C to +1350°C
SCMS5B47K-14	J	0°C to +1200°C
SCMS5B47N-15	N	-100°C to +1300°C

## VOLTAGE OUTPUT MODULES (0 to 5 Drive Capacity, 400Hz BW)

MODEL	INPUT RANGE	OUTPUT RANGE
SCMS5B49-01	0 to +5V	±5V
SCMS5B49-02	±5V	±5V
SCMS5B49-03	±5V	0 to +5V
SCMS5B49-04	0 to +10V	±10V
SCMS5B49-05	±10V	±10V
SCMS5B49-06	±10V	0 to +10V
SCMS5B49-07	±10V	±10V

## ACCESSORIES

MODEL	DESCRIPTION
SCMXFS-003	Package of 10, 4A fuses
SCMXEV	Single channel SCMSB evaluation board
SCMXPR0-001	Power supply, 1A, 5VDC, 120VAC U.S.
SCMXPRE-001	Power supply, 1A, 5VDC, 220VAC European
SCMXPR0-003	Power supply, 3A, 5VDC, 120VAC U.S.
SCMXPRE-003	Power supply, 3A, 5VDC, 220VAC European
SCMXR1	Precision 20Ω resistor for SCMSB32 and SCMSB42
SCMXCJC	Encapsulated cold junction compensation circuit

NOTE: Any module not shown with a 10V output can be specified with 10V output. Consult us for minimum quantity and pricing details, and module specifications

## \*\*THERMOCOUPLE ALLOY COMBINATIONS

Standards: DIN IEC 584, ANSI MC96-1-82, JIS C 1602-1981

TYPE	MATERIAL
J	Iron vs. Copper-Nickel
K	Nickel-Chromium vs. Nickel-Aluminium
T	Copper vs. Copper-Nickel
E	Nickel-Chromium vs. Copper-Nickel
R	Platinum-13% Rhodium vs. Platinum
S	Platinum-10% Rhodium vs. Platinum
B	Platinum-30% Rhodium vs. Platinum-6% Rhodium
C	Tungsten-5% Rhenium vs. Tungsten-26% Rhenium
N	Nickel-14.2% Chromium-1.4% Silicon vs. Nickel-4.4% Silicon-0.1% Magnesium

## \*\*\*RTD STANDARDS

TYPE	ALPHA COEFFICIENT	DIN	JIS
100Ω Pt	0.00385	DIN 43760	JIS C 1604-1989
120Ω Ni	0.00672		
10Ω Cu	0.004274		

## WaveView for Windows II

### Now Available!

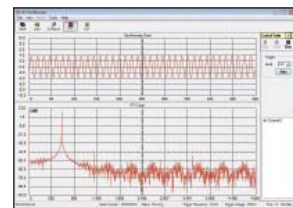
**WaveView for Windows II is a FREE comprehensive new Data Acquisition software suite from Eagle Technology. It features the same helpful functionality as the original WaveView suite and much more. With an easy to use interface, WaveView for Windows II is Microsoft Windows Vista compatible and will run on Windows 2000 or newer. It boasts such features as email notifications, live FFT calculation and multiple processes per project. It supports various analog and digital functions and provides Eagle Technology product users with a set of ready-to-use Windows based graphical applications. The WaveView suite can be used for general purpose Data Acquisition, Data Logging, Monitoring and Analysis.**

**WaveView for Windows II is supplied FREE with all Eagle Technology products and can be downloaded from our website.**



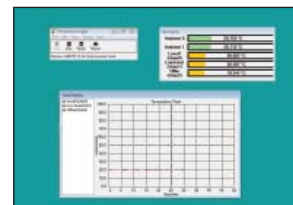
#### Oscilloscope

The oscilloscope application works with the analog input devices and will allow you to sample data at a set frequency, display it on screen and save it to hard drive. The application provides you with analysis tools like Fast Fourier Transforms.



#### Chart Recorder

The chart recorder application turns your computer into a complete monitoring and recording system. It can be configured to read temperature, analog, and digital inputs at intervals as fast as 100mSec. Channels can be configured to signal a preconfigured event if critical levels are reached.

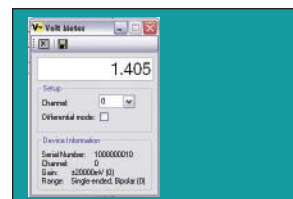


#### Power Supply

Hardware devices that have analog outputs can be used as a digital power supply for laboratories and other lower power requirements.

#### Signal Generator

The signal generator application can be used with hardware that has the analog signal generation function to generate sin, saw tooth, or square waves.

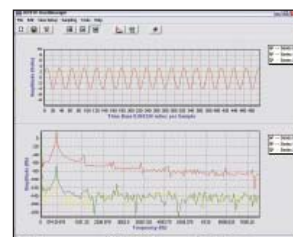


#### Temperature Data Logging

The temperature logger application is designed to read only temperature input devices and give you a bar display as well as a 2d chart representation of the measured temperature. Again as with all the other applications the data can be stored to hard drive for later evaluation.



The original **WaveView for Windows** software suite is also supplied FREE with all Eagle Technology Data Acquisition products. This version is still fully supported and is a good alternative for use with older computers and operating systems. Forming the base of the new WaveView for Windows II package, this version has many of the same great features.





## EDR Enhanced Software Development Kit

Supplied FREE with all Eagle Technology Data Acquisition Products

### DESCRIPTION

EDR Enhanced is a powerful software programming package containing tools, utilities and libraries which provide easy access to our Data Acquisition hardware. The package provides a common interface for Microsoft Windows and Linux making it quick to learn the API (Application Programming Interface) and easy to switch between platforms. The SDK is packed with examples and a programming reference manual is provided. The manual has details on installing the SDK and serves as a reference to the entire list of API functions.

### WINDOWS 98, 2000, XP & Vista

The Windows API consist of a dynamic link library (DLL), ActiveX controls for Windows 98, 2000, XP, Vista and an object component for Microsoft .NET. This API has a programming manual and many examples to quickly master the programming functions. The Windows SDK supports most visual development tools; especially the programming environments available in Microsoft Visual Studio and Visual Studio supporting the .NET Framework. Examples included are for Visual Basic, Visual C++, Delphi, C++ Builder, for the .NET Framework C# and VB.NET.

### WINDOWS CE & POCKET PC

The SDK has a dynamic link library (DLL) for Windows CE.NET. The DLL supports Pocket PC 2003 and has a Control Panel Applet to setup hardware connections. Currently there is only support for the serial MicroDAQ range of devices. The CE package also has examples and a programming manual. Examples are provided for Visual Basic Embedded and Visual C++ Embedded.

### LINUX

The Linux Software Development Kit has support for the latest Linux 2.6 kernel. This package gets maintained constantly to keep it up to date with latest Linux technology. The SDK consist of drivers and a shared object. The shared object is used by application developers and contains the EDR Enhanced programming interface functions. The shared object serves as an easy interface to the data acquisition hardware.

The EDR Enhanced SDK manual has a complete reference of these functions and the Linux programming examples serve as templates and references to master the API.

Supported functions includes digital I/O, counter-timers & analog I/O. All our Linux software is open source.

### ARCHITECTURE

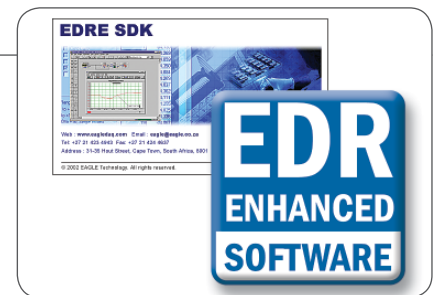
EDR Enhanced has a Hardware Abstraction Layer (HAL) that makes it possible to run a single application on different Eagle Data Acquisition Hardware without recompiling it. The HAL makes hardware with similar features look the same. A software application can query these features and automatically determine what capabilities the hardware has.

The EDR Enhanced API consists of three distinct layers of software, the operating system driver, the API and the application layer. The API is exposed through either a DLL or ActiveX on Windows and on Linux it is a Shared Object. This identity makes EDR Enhanced a standard and familiar interface for application programmers, regardless of platform.

### DOCUMENTATION & EXAMPLES

EDR Enhanced is supplied with a complete reference manual covering many topics like installation, programming functions and their parameters in general. Hardware manuals target these functions in more detail and refer specifically to the hardware you are programming for. The SDK contains general examples and examples written for specific pieces of hardware. These examples serve as tutorials and a basic starting point to write applications making use of the EDR Enhanced API. The examples cover all areas namely Digital I/O, Counter-Timers and Analog I/O.

Support For: All Eagle Data Acquisition Products



### FEATURES

- Extensive Object support for the Microsoft.NET Framework
- Complete ActiveX support for Windows programming environments
- Platform independent Hardware Abstraction Layer
- Software has a distinct modular design
- Minimal function sets make it easy to learn
- Extensive range of examples covering many programming environments
- Common API for Windows and Linux

### OPERATING SYSTEMS

- Windows 2000/XP/Vista
- Windows CE.NET & Pocket PC 2003
- Linux 2.6.9 to 2.6.20 and later

### PROGRAMMING ENVIRONMENTS

- Visual Studio .NET including C# and VB.NET
- Visual C/C++, Visual Basic, Visual Basic for Applications
- C++ Builder, Delphi
- GNU C/C++ Compilers
- Java (Linux only)

## EDR Enhanced Software Development Kit

### Third Party Interface Driver Packages



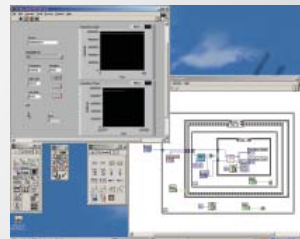
## Full LabVIEW Drivers & Support!

### EDR Enhanced LabVIEW

LabVIEW™ has become the world's most popular software package for data acquisition users. We provide extensive support for our data acquisition products under LabVIEW™. Our constantly updated LabVIEW™ drivers ensure that you can use you Eagle Technology product with which ever LabVIEW™ version you are using, without any hassle. Our LabVIEW™ drivers, API and example VI's are provided completely FREE with every Eagle Technology product.

- Driver & VI support for LabVIEW™ 6.x, LabVIEW™ 7.x & LabVIEW 8
- Easy to use VI's for A/D, D/A, DIO & Temperature Functions
- Supports all Win32 platforms
- Example VI's for analog input, analog output, digital input, digital output and temperature thermocouple/RTD input
- Multi-Device Support (such as USB / PCI / RS232 / Ethernet)

Support For: All PCI, USB, Serial & Wireless MicroDAQ Products

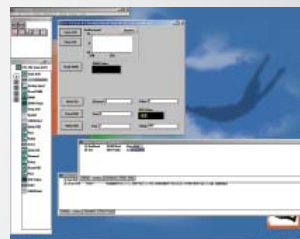


### EDR Enhanced TestPoint

EDRE-Testpoint™ is an enhanced interface driver for CEC's TestPoint™ Data Acquisition Software Package ([www.cec488.com](http://www.cec488.com)). Testpoint™ is an easy to use software package for acquiring, analyzing and controlling data acquisition hardware. One can easily design one's own applications in its true object oriented development environment. No prior programming knowledge is required.

- Full 32-bit support for TestPoint™ version 4.01 and newer
- Easy to use A/D, DIO, Counter/Timer, D/A & Temperature functions
- Extensive configuration support for TestPoint™
- Supports all Win32 platforms
- Auto driver scanning
- Examples provided

Support For: All PCI, USB, Serial & Wireless MicroDAQ Products



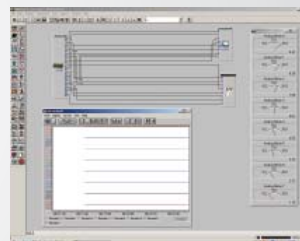
DASYLab

### EDR Enhanced DasyLab

EDR Enhanced for DasyLab™ is an interface driver for DASYLab™ Data Acquisition System Laboratory. DASYLab™ is an easy to use software package with a wide range of functions for fast data display. DASYLab™ data acquisition software has an integrated VI-Tool.

- Full support for 14bit and 16bit MicroDAQ devices.
- Full support for Micro DAQ Lite.
- Easy to use A/D, DIO, Counter/Timer, D/A & Temperature functions
- Supports all Win32 platforms
- Examples provided
- Easy, Graphical Programming

Support For: All USB, Serial & Wireless MicroDAQ Products



### EDR Enhanced VEE

- Full support for Agilent VEE Pro™ & VEE OneLab™ version 6.01
- Easy to use A/D, DIO, Counter/Timer, D/A & Temperature functions
- Supports all Win32 platforms
- Examples provided
- Easy, Graphical Programming

Support For: All PCI, USB, Serial & Wireless MicroDAQ Products

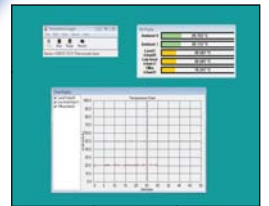
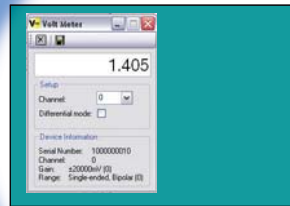
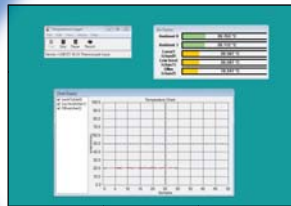
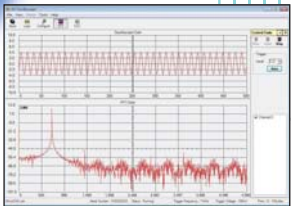
## ***NOW Available! - WaveView for Windows II***

*WaveView for Windows II is a FREE comprehensive new Data Acquisition software suite from Eagle Technology. It features the same helpful functionality as the original WaveView suite and much more. With an easy to use interface, WaveView for Windows II is Microsoft Windows Vista compatible and will run on Windows 2000 or newer. It boasts such features as email notifications, live FFT calculation and multiple processes per project. It supports various analog and digital functions and provides Eagle Technology product users with a set of ready-to-use Windows based graphical applications. The WaveView suite can be used for general purpose Data Acquisition, Data Logging, Monitoring and Analysis.*

*WaveView for Windows II is supplied FREE with all Eagle Technology products and can be downloaded from our website.*



**WaveView II**  
for WINDOWS



### **EAGLE TECHNOLOGY**

31-35 Hout Street | Cape Town 8000

PO Box 4376 | Cape Town 8000 | South Africa

**Tel** +27 21 423 4943 | **Fax** +27 21 424 4637

**Toll Free** 0800 233322 (RSA only)

**eagle@eagle.co.za | www.eagle.co.za**

**[www.eagledaq.com](http://www.eagledaq.com)**

