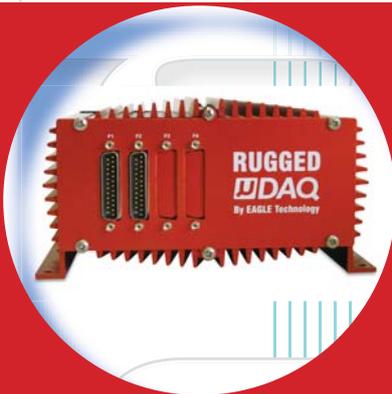


data

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 **II**

 **UDAQ**
MicroDAQ Data Acquisition

 **EAGLE**
Technology 

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

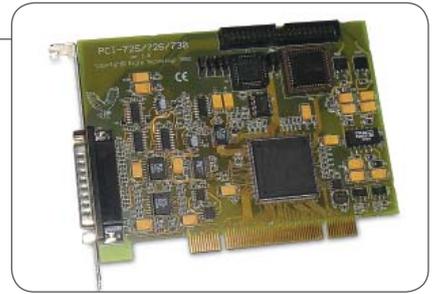
Entry Level Multi-function DAQ

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

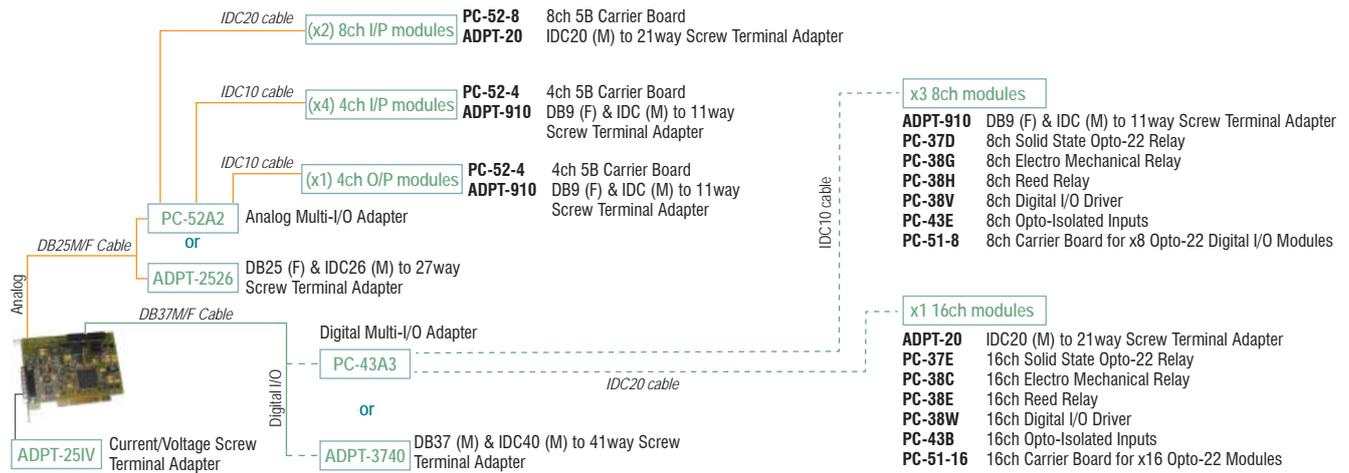


IDC40 to DB37 adapter supplied



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

1 PCI Data Acquisition

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

Professional Multi-function DAQ

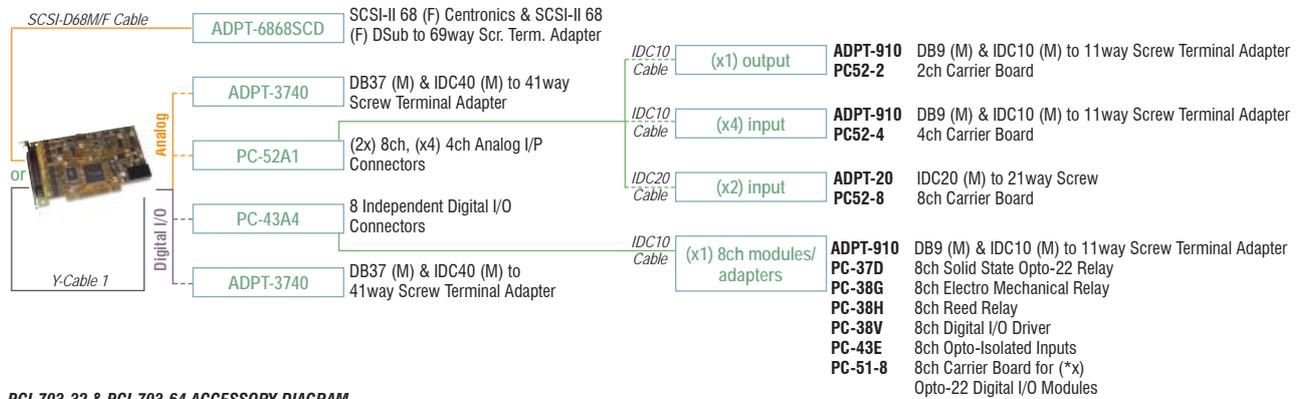
A/D D/A DIO C/Timer

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

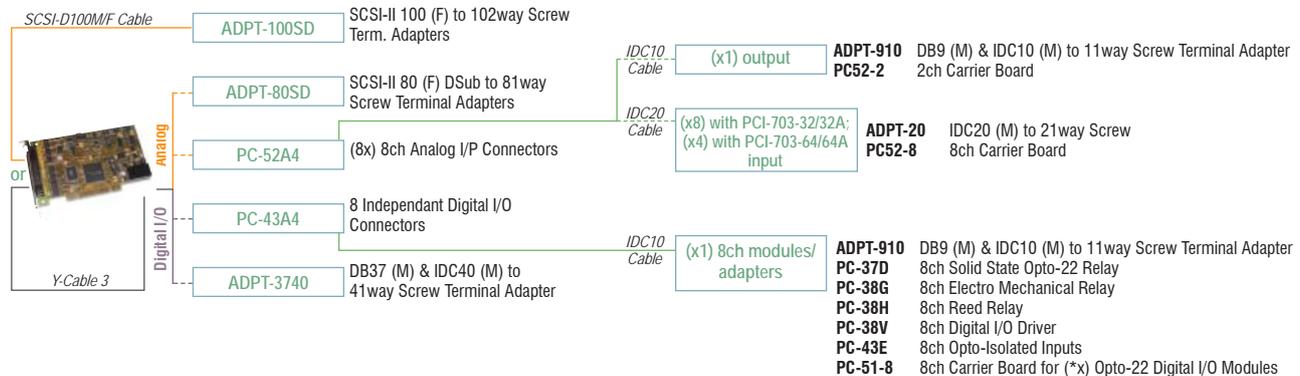


Model	PCI-703-16	PCI-703-16A	PCI-703-32	PCI-703-32A	PCI-703-64	PCI-703-64A
Functions	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers	A/D, DIO, C/Timers	A/D, DIO, C/Timers	A/D, DIO, C/Timers	A/D, DIO, C/Timers
A/D Channels	16 SE or 8 DIFF	16 SE or 8 DIFF	32 SE or 16 DIFF	32 SE or 16 DIFF	64 SE or 32 DIFF	64 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	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV ±50mV	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV ±50mV	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV ±50mV	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV ±50mV	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV ±50mV	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV ±50mV
Unipolar A/D Range	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	-	±10V	-	±10V	-	±10V
DIO Channels	18	18	18	18	18	18
C/Timers (user)	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 & PCI-703-64 ACCESSORY DIAGRAM



Software Support

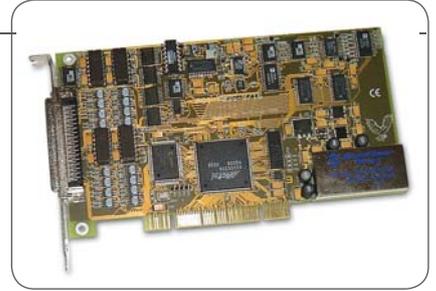


PCI - 703-S8 / 703-S8A / 703-S16 / 703-S16A

Simultaneous Sample & Hold

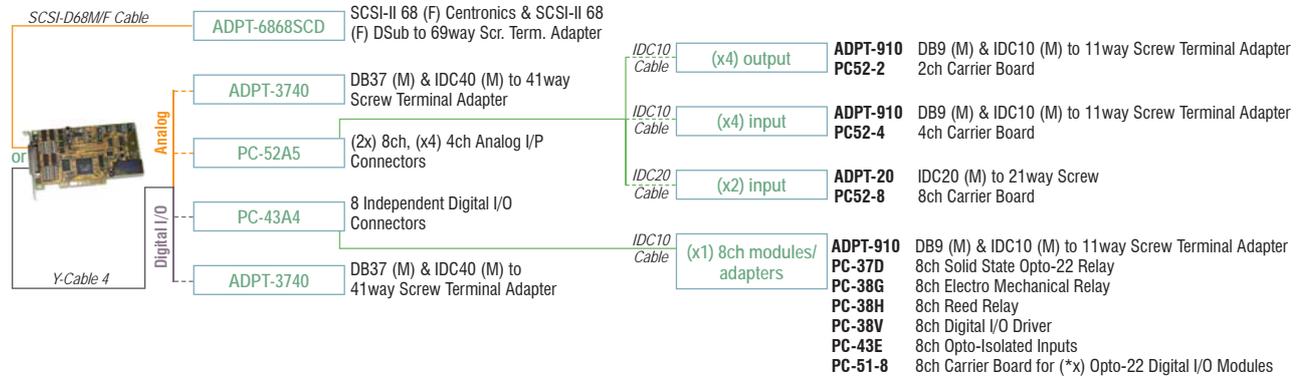
 A/D
  D/A
  DIO
  C/Timer

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



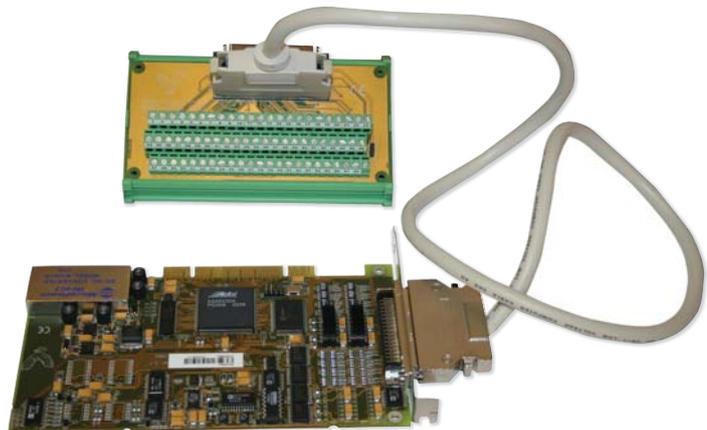
Model	PCI-703-S8	PCI-703-S8A	PCI-703-S16	PCI-703-S16A
Functions	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers	A/D, DIO, C/Timers	A/D, D/A, DIO, C/Timers
A/D Channels	8 DIFF Simultaneous sample & hold	8 DIFF Simultaneous sample & hold	16 DIFF Simultaneous sample & hold	16 DIFF Simultaneous sample & hold
A/D Resolution	14-bit	14-bit	14-bit	14-bit
A/D Sampling Rate	400kHz	400kHz	400kHz	400kHz
Bipolar A/D Range	±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV	±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV	±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV	±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV
Unipolar A/D Range	-	-	-	-
D/A Channels	-	2	-	2
D/A Resolution	-	14-bit	-	14-bit
D/A Output Range	-	±10V	-	±10V
DIO Channels	18	18	18	18
C/Timers (user)	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



1 PCI Data Acquisition

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)



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

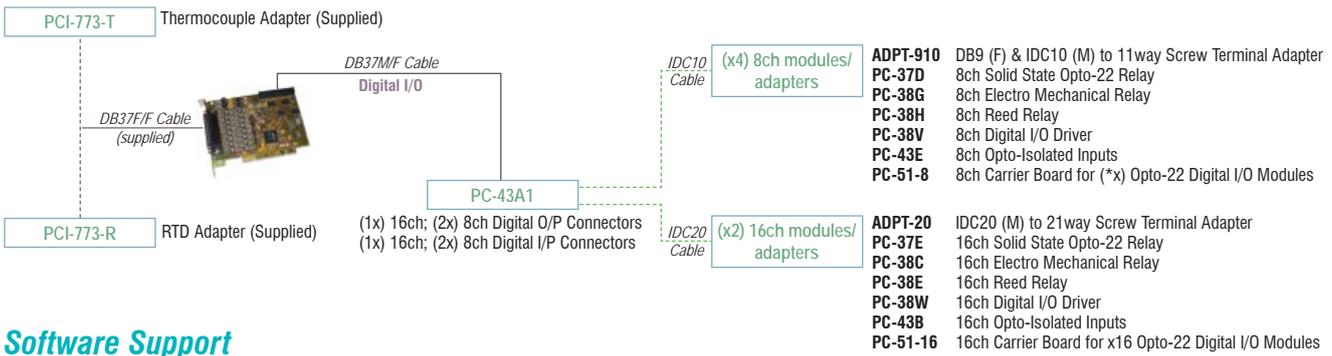
- High resolution temperature inputs
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Cold junction compensation (CJC) adapters supplied
- Individual current sources for RTD sensors
- Free temperature logging software provided



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)



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)

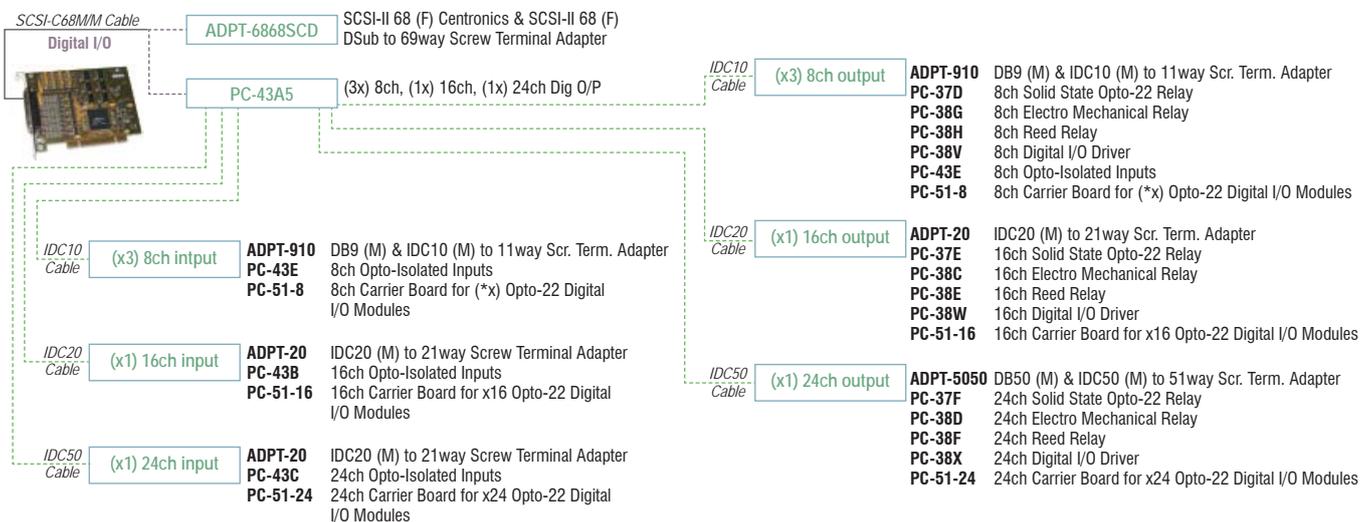
- 48x Fully protected digital I/O lines
- 6x 24-bit Counter/Timers
- Wide range of digital accessories
- Great for industrial use



Software Support



PCI-14B ACCESSORY DIAGRAM



1 PCI Data Acquisition

PCI -836A / 836C

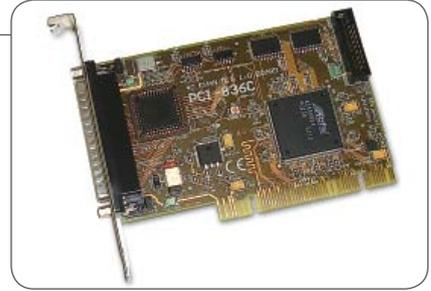
Digital I/O



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

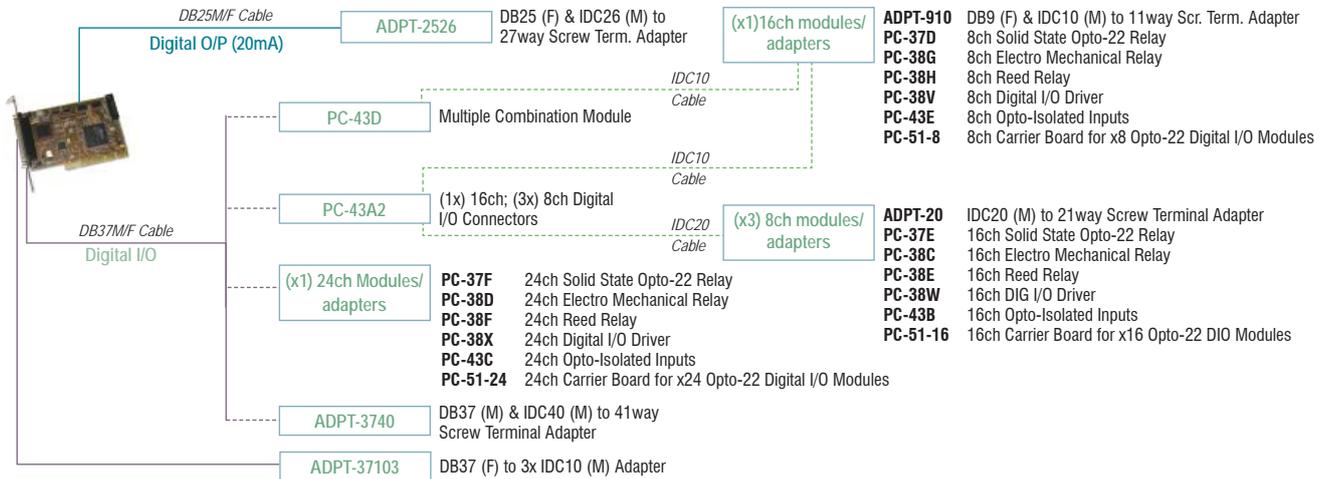


- Low cost Digital I/O
- Each port programmable as input or output

Software Support



PCI-836 ACCESSORY DIAGRAM



PCI -848A / 848C / 896A / 896C / 8192A / 8192C

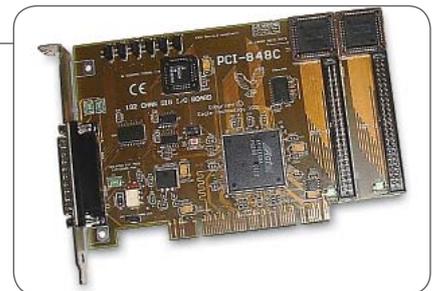
Digital I/O with Counter Times



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

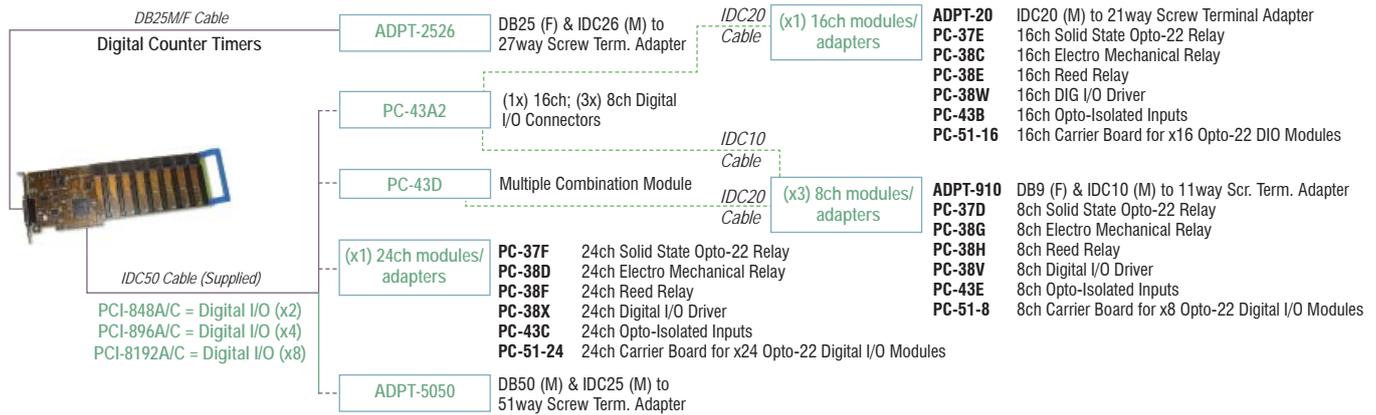


IDC50 cables supplied



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

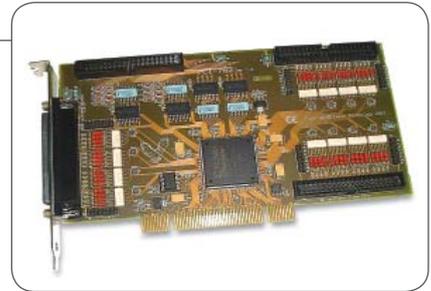
Digital I/O with Opto-Isolated Digital Inputs



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)

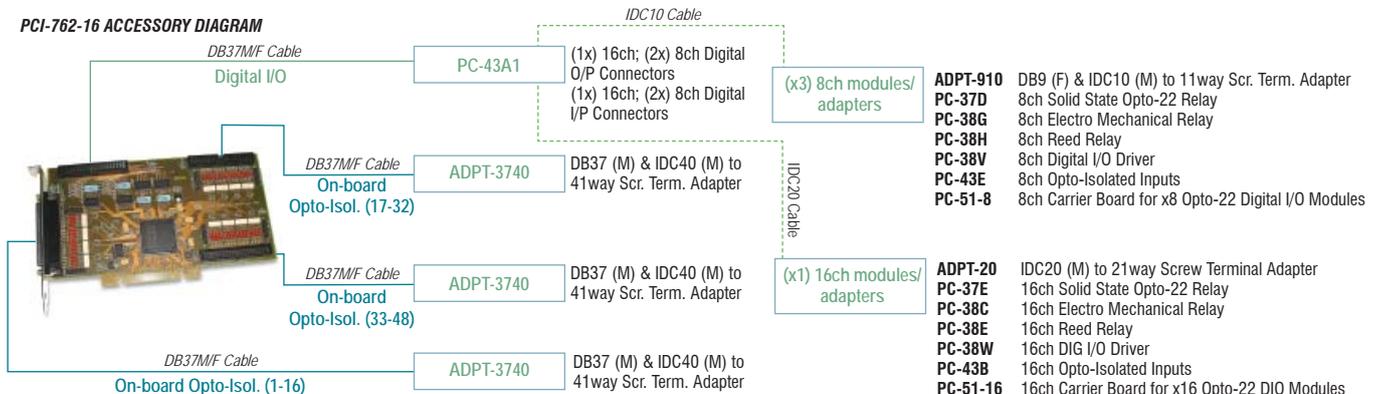


IDC40 to DB37 adapter(s) supplied



- 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



1 PCI Data Acquisition

PCI -763-16 / 763-32

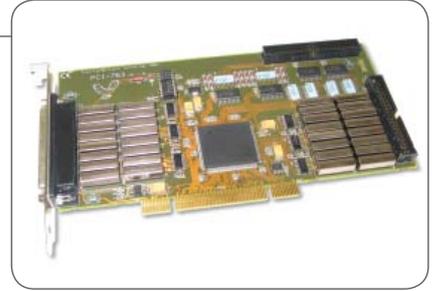
Digital I/O with Reed Relay Digital Outputs



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)



IDC40 to DB37 adapter(s) supplied

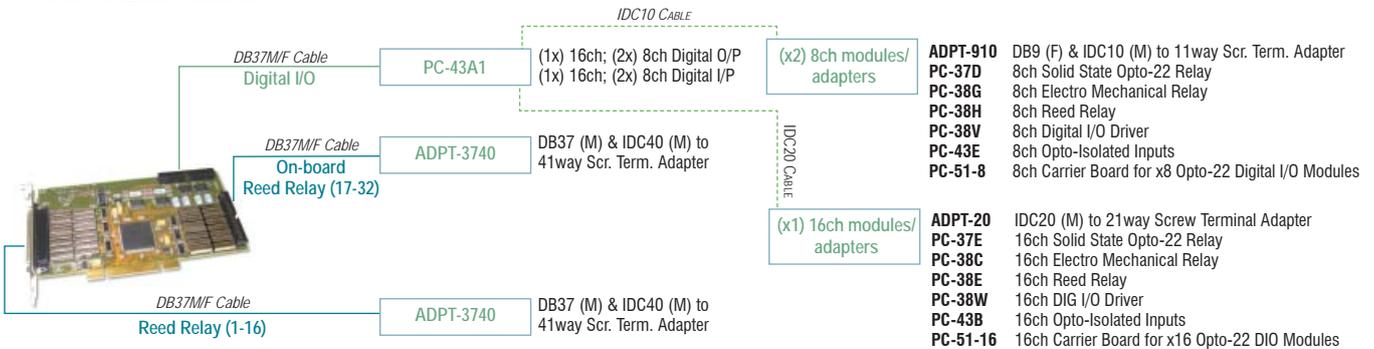


- Perfect for signal switching applications
- Onboard general purpose Digital I/O

Software Support



PCI-30G ACCESSORY DIAGRAM



PCI -769

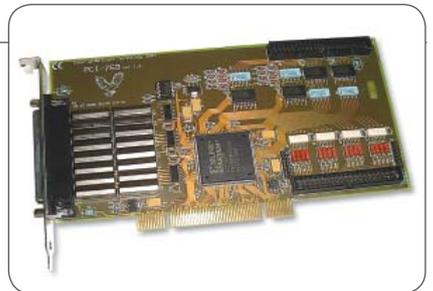
Digital I/O with Opto-Isolated Digital Inputs & Reed Relay Digital Outputs



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)



IDC40 to DB37 adapters supplied

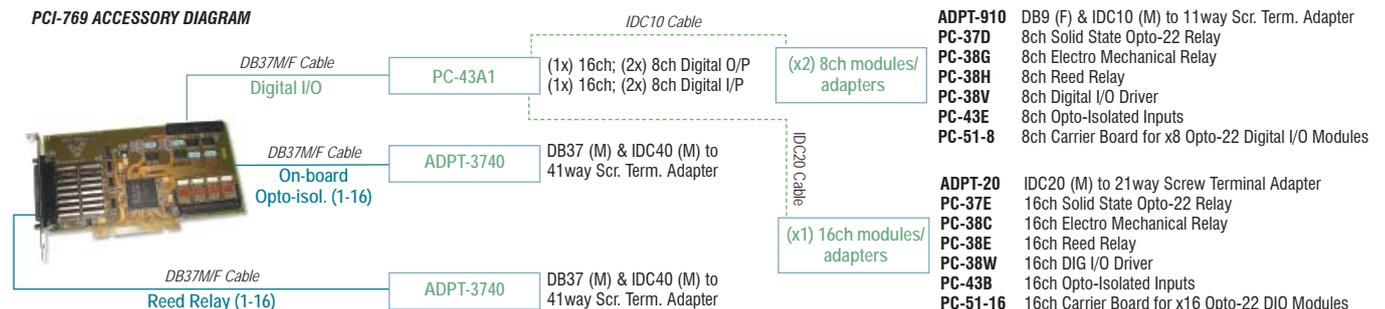


- Great multi-function Digital I/O board
- The perfect multi-purpose Digital I/O board

Software Support



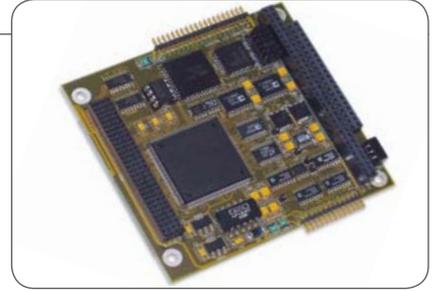
PCI-769 ACCESSORY DIAGRAM



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

Multi-function DAQ

 A/D
  D/A
  DIO
  C/Timer



Extended temperature range

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



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

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

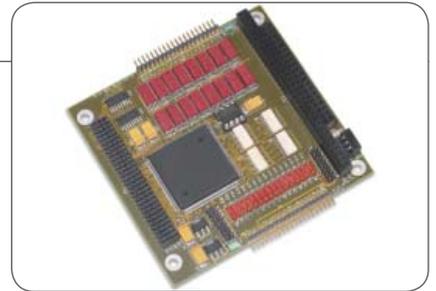


PC -104PLUS-69

Opto-Isolated Digital Inputs & Reed Relay Digital Outputs

 DIO

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



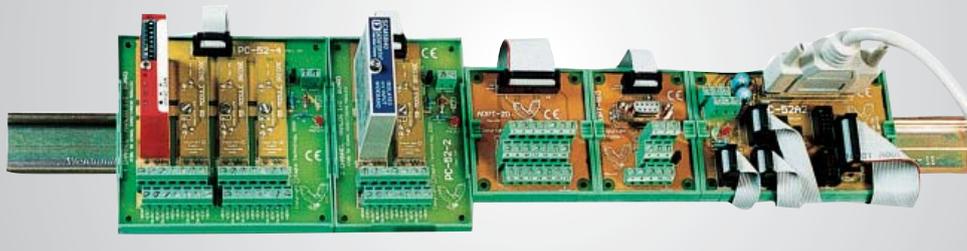
Supplied with PC/104 Mounting Kit,
and IDC40 (pitch = 2mm)
Ribbon Cable

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.



2 PC/104-Data Acquisition

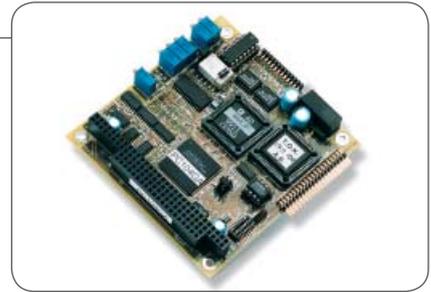
PC104-30G / 30GA / 30F / 30FA

Multi-function DAQ

 A/D  D/A  DIO  C/Timer



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			
A/D Resolution	12bit	12bit	12bit	12bit
A/D Sampling Rate	100kHz	100kHz	330kHz	330kHz
Bipolar A/D Range	±10V, ±5V, ±1V, ±500mV, ±100mV, ±50mV, ±10mV, ±5mV	±10V, ±5V, ±1V, ±500mV, ±100mV, ±50mV, ±10mV, ±5mV	±10V, ±5V, ±1V, ±500mV, ±100mV, ±50mV, ±10mV, ±5mV	±10V, ±5V, ±1V, ±500mV, ±100mV, ±50mV, ±10mV, ±5mV
Unipolar A/D Range	0-10V, 0-1V, 0-100mV, 0-10mV			
D/A Channels	-	4	-	4
D/A Resolution	-	12bit	-	12bit
D/A Output Range	-	±10V	-	±10V
DIO Channels	24 (TTL)	24 (TTL)	24 (TTL)	24 (TTL)
C/Timers (user)	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	±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)

 A/D



Supplied with PC104 Mounting Kit and SIP-3M Connector



- Very high speed A/D
- Low noise design

Software Support



PC104-72A

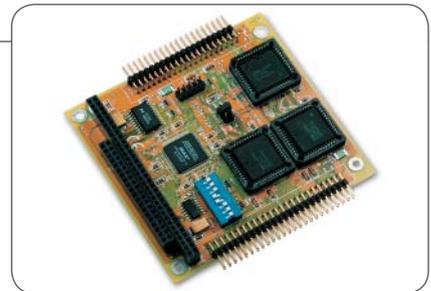
Digital I/O

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)

 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.

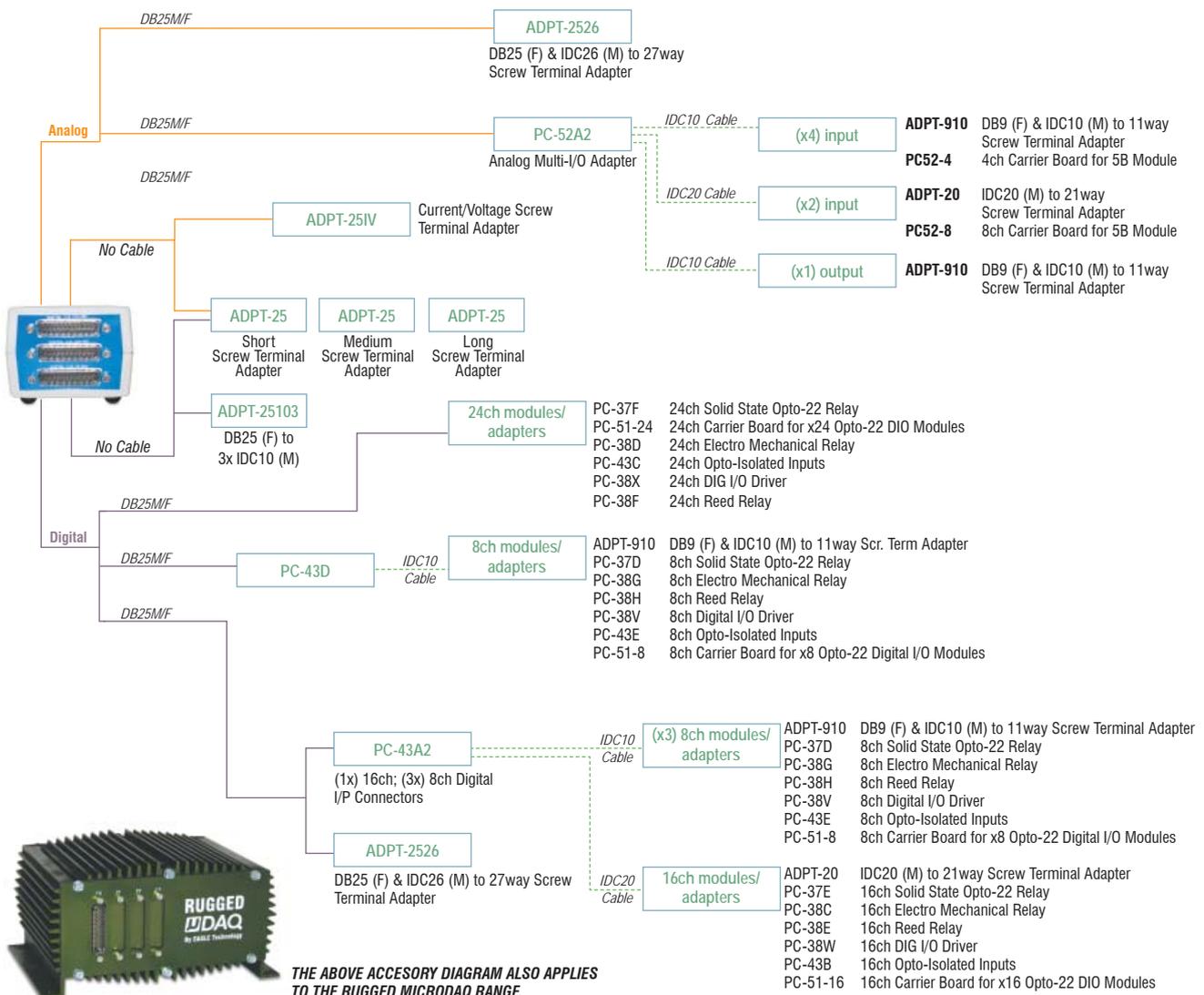
- **Extremely versatile portable design**
- **Plug & play interfaces such as USB make installation quick and easy**
- **Huge product range with a wide variety of feature sets**
- **Quick and painless integration**
- **Ruggedised versions for industrial use**
- **Perfectly suited to integration, Field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

DIO C/Timer

- 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



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

DIO

- 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



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	±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	4	4	4	4	4	4
D/A Resolution	14bit	14bit	16bit	16bit	16bit	16bit
D/A Output Range	±10V	±10V	±10V	±10V	±10V	±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	±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	-	-	-	-
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



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

Software Support



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)				
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



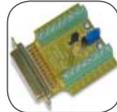
3 MicroDAQ USB Data Acquisition

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

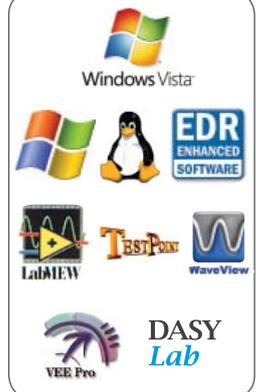


Power supply supplied



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	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±75mV T/C Range)	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±75mV T/C Range)	±10V, (±75mV T/C Range)	±5V, (±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	±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 (T/C), DB25M (DIO)	DB25M (A/D & D/A), DB25M (T/C), DB25M (DIO)

Software Support



* For compatible accessories see table on page 11

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 & DB25MF cable supplied



USB cable supplied

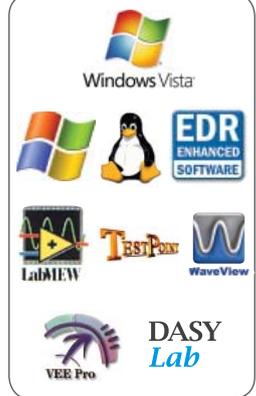


Power supply supplied



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	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±2.5V RTD Range)	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±2.5V RTD Range)	±10V, (±2.5V RTD Range)	±5V (±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	±10V	±10V	±10V	±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)

Software Support



* For compatible accessories see table on page 11

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

Digital I/O with Counter Timers

 DIO  C/Timer

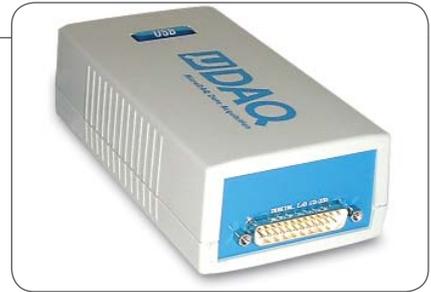
- Up to 120 lines of programmable Digital I/O
- Optional Counter/Timers with interrupts
- Wide range of digital accessory modules available



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

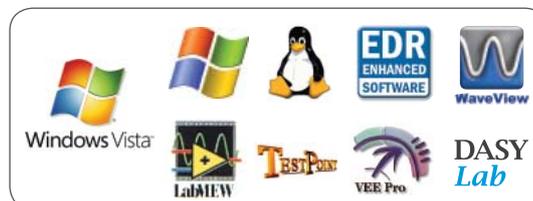
Software Support

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



4 MicroDAQ Ethernet Data Acquisition

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

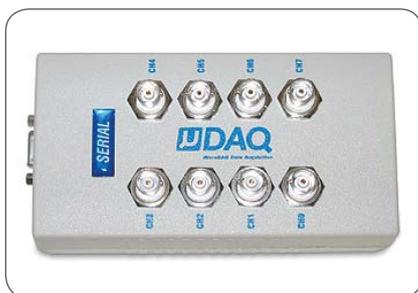
- No network programming knowledge or experience required
- BNC connectors integrated onto chassis
- Perfect for lab use and experiments
- Wide range if Digital I/O accessory modules available



Power supply supplied



Ethernet cable supplied



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



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



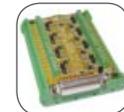
Ethernet cable supplied



Power supply supplied



T/C Adapter Supplied



RTD Adapter & DB25M/F cable supplied

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)				
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

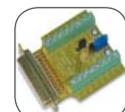
- Hybrid feature set makes this the ultimate multi-function DAQ device
- No network programming knowledge or experience required
- Support for type J, K, E, T, R, S, B & C Thermocouples
- Support for 3-wire and 4-wire RTD sensors
- Free temperature logging software provided



Ethernet cable supplied



Power supply supplied



Thermocouple adapter supplied



RTD Adapter & DB25M/F cable supplied

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

Software Support



5 MicroDAQ Serial Data Acquisition

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

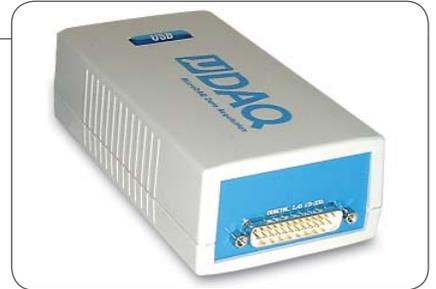
Digital I/O with Counter Timers

 DIO  C/Timer

- 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

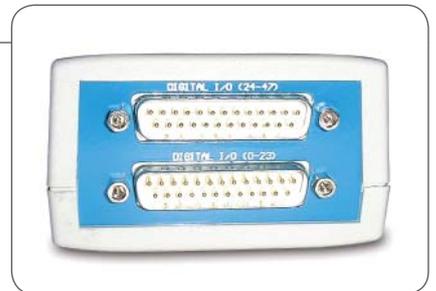
Digital I/O with Opto-Isolated Digital Inputs and Reed Relay Digital Outputs

 DIO

- 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)



Screw terminal adapter supplied for RS485 models



Serial cable supplied for RS232 models

* For compatible accessories see table on page 11

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



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

Software Support



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



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



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



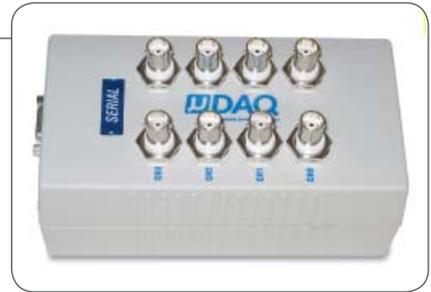
Screw terminal adapter supplied for RS485 models



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)				
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)



Screw terminal adapter supplied for RS485 models



Serial cable supplied for RS232 models



Power supply supplied



T/C Adapter Supplied



RTD Adapter & DB25M/F cable supplied

* 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



- 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)

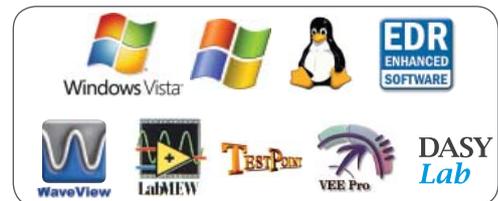
* For compatible accessories see table on page 11

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 Modbus 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

DIO C/Timer

- 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



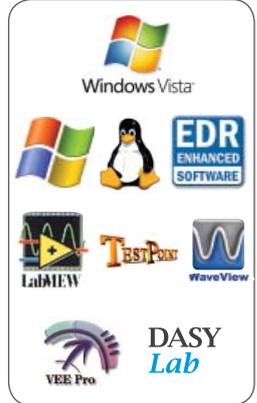
Power supply supplied



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

DIO

- 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



6 MicroDAQ Wireless Data Acquisition

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



Software Support



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

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 if Digital I/O accessory modules available



Bluetooth antenna supplied



USB Bluetooth dongle supplied



Power supply supplied



Software Support



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

Supplied with Windows & Linux drivers

CD includes full WaveView software suite

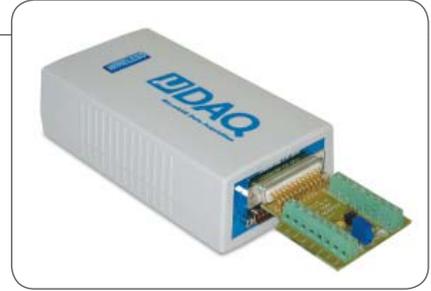
Support for all major 3rd party applications and programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX

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

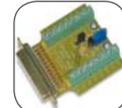
Thermocouple (T/C) / RTD Temperature Input with Digital I/O

 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



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)				
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)



T/C Adapter Supplied



RTD Adapter & DB25M/F cable supplied



USB Bluetooth dongle supplied



Power supply supplied



Bluetooth antenna supplied

* 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



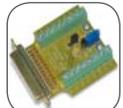
Bluetooth antenna supplied



USB Bluetooth dongle supplied



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)



T/C Adapter Supplied



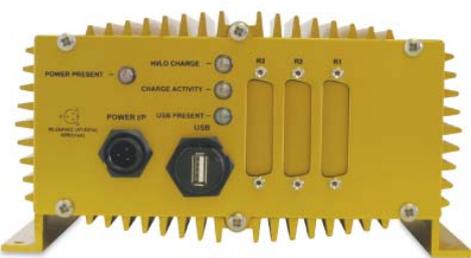
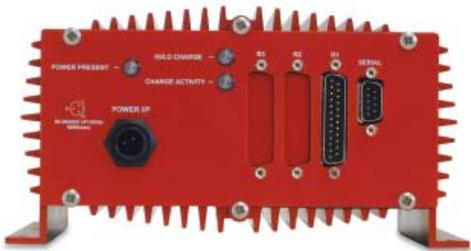
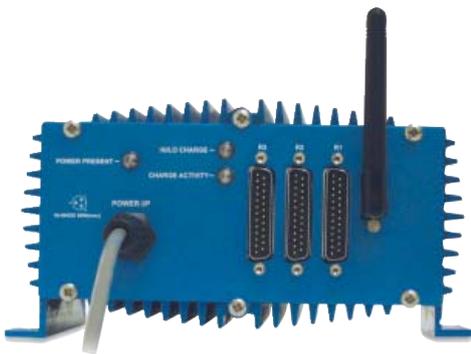
RTD Adapter & DB25M/F cable supplied



Power supply supplied

* 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 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

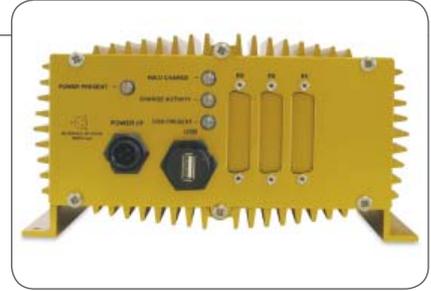
Support for all major 3rd party applications and programming support for Visual C#, Visual C/C++, Visual Basic, VB.NET, Delphi, Java & ActiveX

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

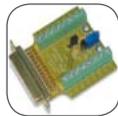


7 RUGGED MicroDAQ

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	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, ±75mV T/C Range	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, ±75mV T/C Range	±10V, ±75mV T/C Range	±5V, ±75mV T/C Range	±10V, ±75mV T/C Range	±5V, ±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	±10V	±10V	±10V	±10V	±10V	±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



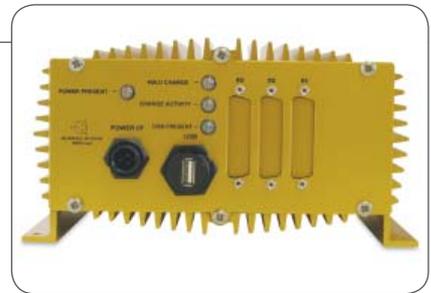
Rugged Power cable supplied



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	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±2.5V RTD Range)	±10V, ±5V, ±2.5V, ±1V, ±500mV, ±250mV, ±100mV, ±50mV, ±25mV, (±2.5V RTD Range)	±10V, (±2.5V RTD Range)	±5V, (±2.5V RTD Range)	±10V, (±2.5V RTD Range)	±5V, (±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	±10V	±10V	±10V	±10V	±10V	±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

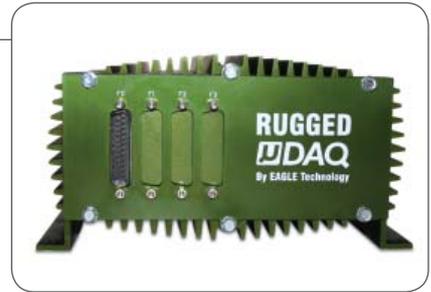
Rugged

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

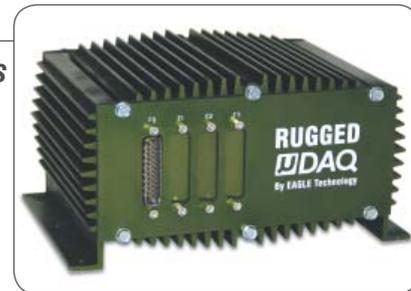
7 RUGGED MicroDAQ

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

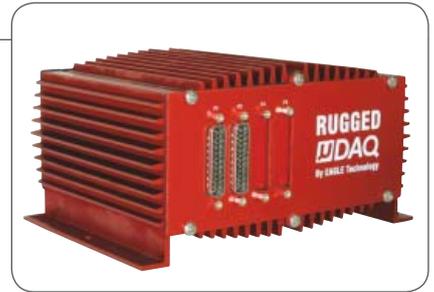
7 RUGGED MicroDAQ

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



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

Software Support

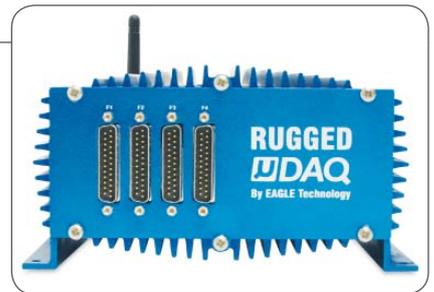


R-BT-168A / 144C

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

DIO

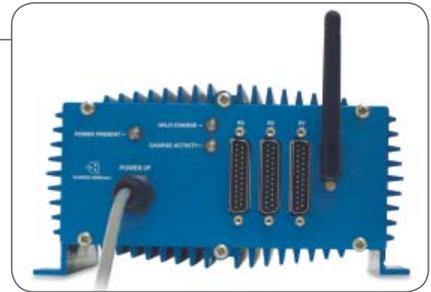
- AC or DC internal power supply options available
- Optional integrated battery pack & charger
- Opto Isolated Digital inputs for industrial applications
- Reed relay Digital outputs for signal switching and more
- USB to Bluetooth wireless adapter included



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

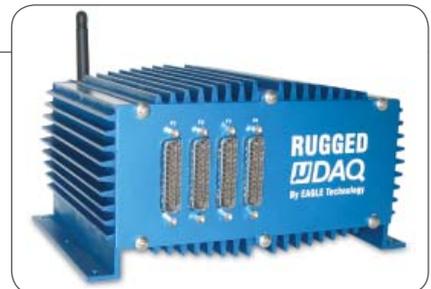


R-BT-30A16-73T32 / 30C16-73T32 / 30C32-73T16

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

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
- 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



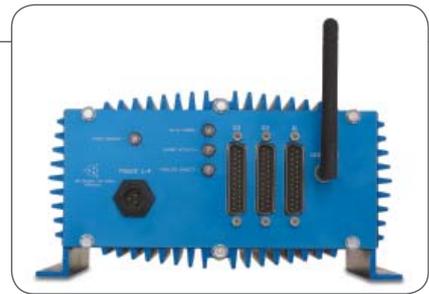
7 RUGGED MicroDAQ

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

Rugged Wireless Hybrid Multi-function DAQ with RTD Inputs



- 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)

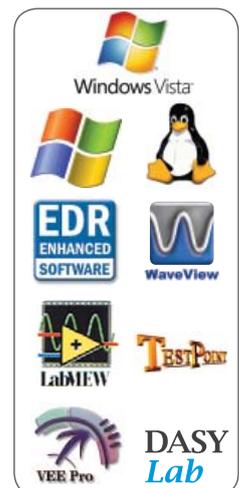
* For compatible accessories see table on page 11

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

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

MicroDAQ & Rugged MicroDAQ Digital I/O (0 - 23) (24 - 47) (48 - 71) (72 - 95) (96 - 119) (120 - 143) (144 - 167)

DB-25M

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

MicroDAQ & Rugged MicroDAQ Analog I/O A/D: (0 - 15) (16 - 31) D/A: (0 - 3)

DB-25M

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+

MicroDAQ & Rugged MicroDAQ Temperature Inputs (0 - 15) (16 - 31)

DB-25M

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

MicroDAQ & Rugged MicroDAQ Opto Inputs (0 - 7) (8 - 15) (16 - 23) (24 - 31) (32 - 39) (40 - 47)

DB-25M

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

MicroDAQ & Rugged MicroDAQ Relay Outputs (0 - 7) (8 - 15) (16 - 23) (24 - 31) (32 - 39) (40 - 47)

DB-25M

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 Counter / Timers

DB-9F

DAC1	6	1	DACO
DAC3	7	2	DAC2
AGND	8	3	10V-REFCAL
EXT_TRIG	9	4	DGND
		5	EXT_CLK



BNC MicroDAQ Analog Input

BNC MicroDAQ Analog Outputs

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

DB-37M (external)	IDC-40M (onboard)	DB-37F (Opto 0-15) (onboard)	DB-37F (Opto 16-31) (external)	IDC-40M (Opto 16-31) (onboard)	DB-37F (Opto 32-47) (external)	IDC-40M (Opto 32-47) (onboard)
D10 20 1 D13 21 2 D15 22 3 D17 23 4 D19 24 5 D21 25 6 D23 26 7 D25 27 8 D27 28 9 D29 30 10 D31 31 11 D33 32 12 D35 33 13 D37 34 14 D39 35 15 D41 36 16 D43 37 17 D45 38 18 D47 39 19 +5V_FUSED 19 DGND 39 40	D1 1 2 D2 3 4 D3 5 6 D4 7 8 D5 9 10 D6 11 12 D7 13 14 D8 15 16 D9 17 18 D10 19 20 D11 21 22 D12 23 24 D13 25 26 D14 27 28 D15 29 30 D16 31 32 D17 33 34 D18 35 36 D19 37 38 D20 39 40 +5V_FUSED 39 40 DGND 39 40	DGND 37 19 +5V_FUSED 36 18 +12V_FUSED 35 17 ComB 34 16 OPTO15(+) 34 16 OPTO14(+) 33 15 OPTO13(+) 32 14 OPTO12(+) 31 13 OPTO11(+) 30 12 OPTO10(+) 29 11 OPTO9(+) 28 10 OPTO8(+) 27 9 OPTO7(+) 26 8 OPTO6(+) 25 7 OPTO5(+) 24 6 OPTO4(+) 23 5 OPTO3(+) 22 4 OPTO2(+) 21 3 OPTO1(+) 20 2 OPTO0(+) 19 1 OPTO0(-) 1 1	DGND 37 19 +5V_FUSED 36 18 DGND 35 17 ComC 34 16 OPTO31(+) 34 16 OPTO30(+) 33 15 OPTO29(+) 32 14 OPTO28(+) 31 13 OPTO27(+) 30 12 OPTO26(+) 29 11 OPTO25(+) 28 10 OPTO24(+) 27 9 OPTO23(+) 26 8 OPTO22(+) 25 7 OPTO21(+) 24 6 OPTO20(+) 23 5 OPTO19(+) 22 4 OPTO18(+) 21 3 OPTO17(+) 20 2 OPTO16(+) 19 1 OPTO16(-) 1 1	OPTO16(+) 1 2 OPTO17(+) 3 4 OPTO18(+) 5 6 OPTO19(+) 7 8 OPTO20(+) 9 10 OPTO21(+) 11 12 OPTO22(+) 13 14 OPTO23(+) 15 16 OPTO24(+) 17 18 OPTO25(+) 19 20 OPTO26(+) 21 22 OPTO27(+) 23 24 OPTO28(+) 25 26 OPTO29(+) 27 28 OPTO30(+) 29 30 OPTO31(+) 31 32 ComC 33 34 ComD 35 36 DGND 37 38 +5V_FUSED 37 38 +5V_FUSED 39 40 DGND 39 40	DGND 37 19 +5V_FUSED 36 18 DGND 35 17 ComE 34 16 OPTO47(+) 34 16 OPTO46(+) 33 15 OPTO45(+) 32 14 OPTO44(+) 31 13 OPTO43(+) 30 12 OPTO42(+) 29 11 OPTO41(+) 28 10 OPTO40(+) 27 9 OPTO39(+) 26 8 OPTO38(+) 25 7 OPTO37(+) 24 6 OPTO36(+) 23 5 OPTO35(+) 22 4 OPTO34(+) 21 3 OPTO33(+) 20 2 OPTO32(+) 19 1 OPTO32(-) 1 1	OPTO32(+) 1 2 OPTO33(+) 3 4 OPTO34(+) 5 6 OPTO35(+) 7 8 OPTO36(+) 9 10 OPTO37(+) 11 12 OPTO38(+) 13 14 OPTO39(+) 15 16 OPTO40(+) 17 18 OPTO41(+) 19 20 OPTO42(+) 21 22 OPTO43(+) 23 24 OPTO44(+) 25 26 OPTO45(+) 27 28 OPTO46(+) 29 30 OPTO47(+) 31 32 ComE 33 34 ComF 35 36 DGND 37 38 +5V_FUSED 37 38 +5V_FUSED 39 40 DGND 39 40

PCI -763-16 / 763-32

DB-37M (external)	IDC-40M (onboard)	DB-37F (Relay 0-15) (onboard)	DB-37F (Relay 16-31) (external)	IDC-40M (onboard)	IDC-40M	IDC-40M
D10 20 1 D13 21 2 D15 22 3 D17 23 4 D19 24 5 D21 25 6 D23 26 7 D25 27 8 D27 28 9 D29 30 10 D31 31 11 D33 32 12 D35 33 13 D37 34 14 D39 35 15 D41 36 16 D43 37 17 D45 38 18 D47 39 19 +5V 19 DGND 39 40	D10 1 2 D12 3 4 D14 5 6 D16 7 8 D18 9 10 D19 11 12 D21 13 14 D23 15 16 D25 17 18 D27 19 20 D29 21 22 D31 23 24 D33 25 26 D35 27 28 D37 29 30 D39 31 32 D41 33 34 D43 35 36 D45 37 38 D47 39 40 +5V 39 40 DGND 39 40	DGND 37 19 +5V 36 18 EXT INT RET 35 17 RELAY15 RET 35 17 RELAY14 RET 33 15 RELAY13 RET 31 13 RELAY12 RET 29 11 RELAY11 RET 27 9 RELAY10 RET 25 7 RELAY9 RET 23 5 RELAY8 RET 21 3 RELAY7 RET 19 1 EXT INT RET 1 1	DGND 37 19 +5V 36 18 DGND 35 17 RELAY31 RET 35 17 RELAY29 RET 33 15 RELAY28 RET 32 14 RELAY27 RET 31 13 RELAY26 RET 30 12 RELAY25 RET 29 11 RELAY24 RET 28 10 RELAY23 RET 27 9 RELAY22 RET 26 8 RELAY21 RET 25 7 RELAY20 RET 24 6 RELAY19 RET 23 5 RELAY18 RET 22 4 RELAY17 RET 21 3 RELAY16 RET 20 2 RELAY16 1 1	RELAY16 1 2 RELAY17 3 4 RELAY18 5 6 RELAY19 7 8 RELAY20 9 10 RELAY21 11 12 RELAY22 13 14 RELAY23 15 16 RELAY24 17 18 RELAY25 19 20 RELAY26 21 22 RELAY27 23 24 RELAY28 25 26 RELAY29 27 28 RELAY30 29 30 RELAY31 31 32 DGND 33 34 DGND 35 36 +5V 37 38 DGND 39 40 +5V 39 40	CH1 2 1 CH3 4 3 CH5 6 5 CH7 8 7 CH9 10 9 CH11 12 11 CH13 14 13 CH15 16 15 CH17 18 17 DAC2 20 19 +VDD 22 21 EXT_TRIGGER 24 23 NOT USED 26 25	PA0 1 2 PA2 3 4 PA4 5 6 PA6 7 8 PA7 9 10 PB0 11 12 PB1 13 14 PB5 15 16 PC0 17 18 PC2 19 20 PC4 21 22 PC5 23 24 PC7 25 26 DGND 27 28 CLK0 29 30 GATE0 31 32 GATE1 33 34 CLK1 35 36 GATE2 37 38 DGND 39 40 DGND 39 40

PC -104PLUS-30C & PC -104PLUS-30I

IDC-40M	IDC-40M
CH1 2 1 CH3 4 3 CH5 6 5 CH7 8 7 CH9 10 9 CH11 12 11 CH13 14 13 CH15 16 15 CH17 18 17 DAC2 20 19 +VDD 22 21 EXT_TRIGGER 24 23 NOT USED 26 25	PA0 1 2 PA2 3 4 PA3 5 6 PA5 7 8 PA7 9 10 PB0 11 12 PB1 13 14 PB5 15 16 PC0 17 18 PC1 19 20 PC2 21 22 PC5 23 24 PC7 25 26 DGND 27 28 NOT USED 29 30 GATE0 31 32 CLK1 33 34 GATE1 35 36 DGND 37 38 DGND 39 40

PCI -769

DB-37M (external)	IDC-40M (onboard)	DB-37F (Relay 0-15) (onboard)	IDC-40M (Opto 0-15) (onboard)	DB-37F (Opto 0-15) (external)	IDC-40M	IDC-40M	
D10 20 1 D13 21 2 D15 22 3 D17 23 4 D19 24 5 D21 25 6 D23 26 7 D25 27 8 D27 28 9 D29 30 10 D31 31 11 D33 32 12 D35 33 13 D37 34 14 D39 35 15 D41 36 16 D43 37 17 D45 38 18 D47 39 19 +5V_FUSED 19 DGND 39 40	D10 1 2 D12 3 4 D14 5 6 D16 7 8 D18 9 10 D19 11 12 D21 13 14 D23 15 16 D25 17 18 D27 19 20 D29 21 22 D31 23 24 D33 25 26 D35 27 28 D37 29 30 D39 31 32 D41 33 34 D43 35 36 D45 37 38 D47 39 40 +5V_FUSED 39 40 DGND 39 40	DGND 37 19 +5V 36 18 EXT INT RET 35 17 RELAY15 RET 35 17 RELAY14 RET 33 15 RELAY13 RET 31 13 RELAY12 RET 29 11 RELAY11 RET 27 9 RELAY10 RET 25 7 RELAY9 RET 23 5 RELAY8 RET 21 3 RELAY7 RET 19 1 EXT INT RET 1 1	OPTO0 (+) 1 2 OPTO1 (+) 3 4 OPTO2 (+) 5 6 OPTO3 (+) 7 8 OPTO4 (+) 9 10 OPTO5 (+) 11 12 OPTO6 (+) 13 14 OPTO7 (+) 15 16 OPTO8 (+) 17 18 OPTO9 (+) 19 20 OPTO10(+) 21 22 OPTO11(+) 23 24 OPTO12(+) 25 26 OPTO13(+) 27 28 OPTO14(+) 29 30 OPTO15(+) 31 32 ComA 33 34 ComB 35 36 DGND 37 38 +5V_FUSED 37 38 +5V_FUSED 39 40 DGND 39 40	OPTO0 (-) 1 2 OPTO1 (-) 3 4 OPTO2 (-) 5 6 OPTO3 (-) 7 8 OPTO4 (-) 9 10 OPTO5 (-) 11 12 OPTO6 (-) 13 14 OPTO7 (-) 15 16 OPTO8 (-) 17 18 OPTO9 (-) 19 20 OPTO10(-) 21 22 OPTO11(-) 23 24 OPTO12(-) 25 26 OPTO13(-) 27 28 OPTO14(-) 29 30 OPTO15(-) 31 32 ComA 33 34 ComB 35 36 DGND 37 38 +5V_FUSED 37 38 +5V_FUSED 39 40 DGND 39 40	DGND 37 19 +5V_FUSED 36 18 +12V_FUSED 35 17 ComA 34 16 OPTO15(+) 34 16 OPTO14(+) 33 15 OPTO13(+) 32 14 OPTO12(+) 31 13 OPTO11(+) 30 12 OPTO10(+) 29 11 OPTO9(+) 28 10 OPTO8(+) 27 9 OPTO7(+) 26 8 OPTO6(+) 25 7 OPTO5(+) 24 6 OPTO4(+) 23 5 OPTO3(+) 22 4 OPTO2(+) 21 3 OPTO1(+) 20 2 OPTO0(+) 19 1 OPTO0(-) 1 1	CH1 2 1 CH3 4 3 CH5 6 5 CH7 8 7 CH9 10 9 CH11 12 11 CH13 14 13 CH15 16 15 CH17 18 17 DAC2 20 19 +VDD 22 21 EXT_TRIGGER 24 23 NOT USED 26 25	PA0 1 2 PA2 3 4 PA3 5 6 PA5 7 8 PA7 9 10 PB0 11 12 PB1 13 14 PB5 15 16 PC0 17 18 PC1 19 20 PC2 21 22 PC5 23 24 PC7 25 26 DGND 27 28 NOT USED 29 30 GATE0 31 32 CLK1 33 34 GATE1 35 36 DGND 37 38 DGND 39 40

PC -104PLUS-69

IDC-40M 16 x OPTO I/P's	IDC-40M 16 x R/RELAY	IDC-26M	IDC-40M	IDC-50M	IDC-40M
OPTO0(-) 1 2 OPTO1(-) 3 4 OPTO2(-) 5 6 OPTO3(-) 7 8 OPTO4(-) 9 10 OPTO5(-) 11 12 OPTO6(-) 13 14 OPTO7(-) 15 16 OPTO8(-) 17 18 OPTO9(-) 19 20 OPTO10(-) 21 22 OPTO11(-) 23 24 OPTO12(-) 25 26 OPTO13(-) 27 28 OPTO14(-) 29 30 OPTO15(-) 31 32 COMA 33 34 COMB 35 36 DGND 37 38 +5V 37 38 +5V 39 40 DGND 39 40	RELAY0 1 2 RELAY1 3 4 RELAY2 5 6 RELAY3 7 8 RELAY4 9 10 RELAY5 11 12 RELAY6 13 14 RELAY7 15 16 RELAY8 17 18 RELAY9 19 20 RELAY10 21 22 RELAY11 23 24 RELAY12 25 26 RELAY13 27 28 RELAY14 29 30 RELAY15 31 32 DGND 33 34 DGND 35 36 +5V 37 38 DGND 39 40 +5V 39 40	CHAN1 1 2 CHAN3 3 4 CHAN5 5 6 CHAN7 7 8 CHAN9 9 10 CHAN11 11 12 CHAN13 13 14 CHAN15 15 16 AGND 17 18 SENS0 19 20 SENSE1 21 22 SENSE2 23 24 SENSE3 25 26 DAC3	PA1 1 2 PA2 3 4 PA5 5 6 PA6 7 8 PB1 9 10 PB2 11 12 PB4 13 14 PB7 15 16 PC1 17 18 PC3 19 20 PC5 21 22 PC6 23 24 DGND 25 26 GATE2 27 28 OUT2 29 30 OUT1 31 32 CLK2 33 34 EXT_TRIG 35 36 EXT_CLK 37 38 +5V 39 40 DGND 39 40	DGND 50 49 1PC7 48 47 1PC5 46 45 1PC3 44 43 1PC1 42 41 1PB7 40 39 1PB5 38 37 1PB3 36 35 1PB1 34 33 1PA7 32 31 1PA5 30 29 1PA3 28 27 1PA1 26 25 0PC7 24 23 0PC5 22 21 0PC3 20 19 0PC1 18 17 0PB7 16 15 0PB5 14 13 0PB3 12 11 0PB1 10 9 0PA7 8 7 0PA5 6 5 0PA3 4 3 0PA1 2 1	DGND 40 39 DGND 38 37 DGND 36 35 DGND 34 33 DGND 32 31 DGND 30 29 2PC7 28 27 2PC6 26 25 2PC5 24 23 2PC2 22 21 2PC1 20 19 DGND 18 17 2PB6 16 15 2PB4 14 13 2PB2 12 11 DGND 10 9 2PA7 8 7 2PA6 6 5 2PA4 4 3 2PA2 2 1

2.0mm Pitch R/A Header (2 x 20 pin) MALE

2.0mm Pitch R/A Header (2 x 20 pin) MALE

(2.0mm Pitch)

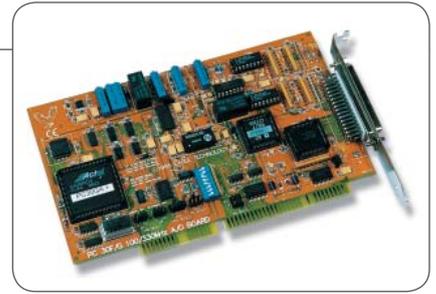
(2.54mm/100mil Pitch)

(2.54mm/100mil Pitch)

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.



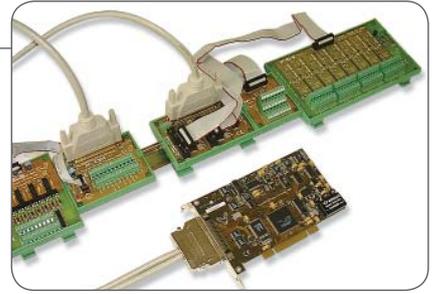
- University of Cape Town uses **Eagle Technology products for advanced Electrical Resistance Tomography (ERT)** system.

 - 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



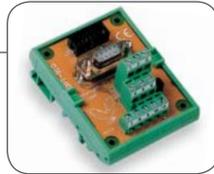
SCREW TERMINAL Adapters

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



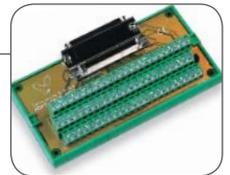
ADPT-20

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



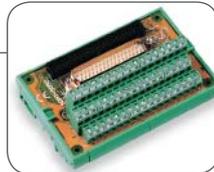
ADPT-100SD

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



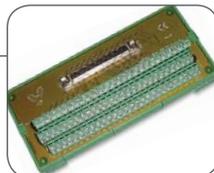
ADPT-25S

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



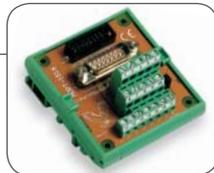
ADPT-25M

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



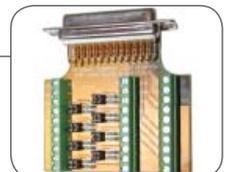
ADPT-2526

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

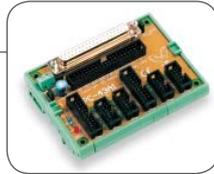
Various combinations of Adapters and I/O Application Modules can be connected to our Digital & Analog Multi-I/O Connectors. Dimensions shown below exclude DIN-rail base.



Digital Multi I/O Connectors

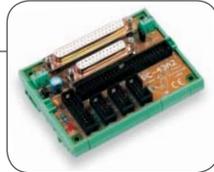
PC-43A1

(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



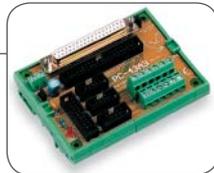
PC-43A2

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



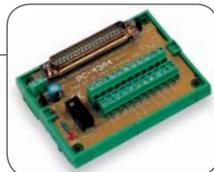
PC-43A3

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



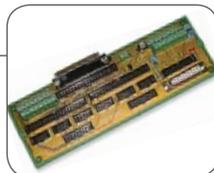
PC-43A4

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



PC-43A5

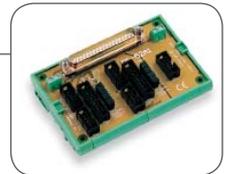
(3x) 8ch; (1x) 16ch; (1x) 24ch Dig O/P Connectors
(3x) 8ch; (1x) 16ch; (1x) 24ch Dig I/P Connectors
Counter/Timer Screw Terminal
Dimensions: 72(W) x 222.5(L) x 23(H) mm



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



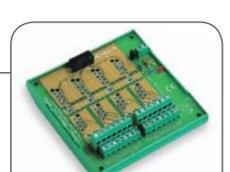
PC-52A3

(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



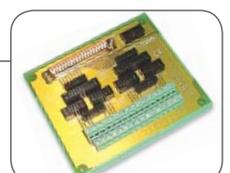
PC-52A4

(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.

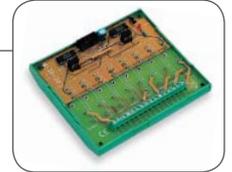
Solid State Relays AC&DC (Digital)

- 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 Resistance (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 Impedance	1 Second Surge	Operating Temp Range	Isolation Voltage	Off-State Leakage	qjc* = Thermal resistance junction 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

9 Accessories

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 G40DC5R 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 10⁶ 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

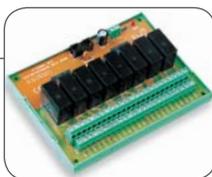
Used to control or switch AC loads. Each module features zero voltage turn-on and zero current turn-off. All AC output modules are equivalent to single-pole, single-throw, normally open contacts, except the G40AC5A5, which is equivalent to a single-pole, single-throw, normally closed contact. Typical 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

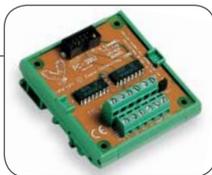
E/Mech Relays (DPDT) 2x 5A (Digital)

- 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.

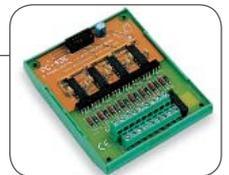
- 4000Vrms optical isolation
- Meets IEEE Surge Withstand Specification (IEEE-472)
- Built-in LED status indicator
- UL recognized, CSA certified, CE approved
- Operating Temperature: -30°C to 70°C
- Passes NEMA Showering Arc Test (ICS 2-230)
- Built-in filtering (transient suppression and noise rejection)

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



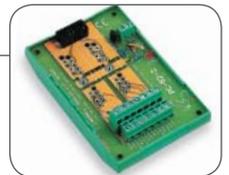
Reed Relays SPST (15W) (Digital)

- 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
SCMSB30-01	±10mV	±5V
SCMSB30-02	±50mV	±5V
SCMSB30-03	±100mV	±5V
SCMSB30-04	±10mV	0 to +5V
SCMSB30-05	±50mV	0 to +5V
SCMSB30-06	±100mV	0 to +5V
SCMSB31-01	±1mV	±5V
SCMSB31-02	±5mV	±5V
SCMSB31-03	±10mV	±5V
SCMSB31-04	±1mV	0 to +5V
SCMSB31-05	±5mV	0 to +5V
SCMSB31-06	±10mV	0 to +5V
SCMSB31-07	±20mV	±5V
SCMSB31-08	±20mV	0 to +5V
SCMSB31-09	±40mV	±5V
SCMSB31-10	±40mV	0 to +5V

ANALOG CURRENT INPUT MODULES, 4Hz AND 1kHz BANDWIDTH

MODEL	INPUT RANGE	OUTPUT RANGE	BW
SCMSB32-01	4 to 20mA	0 to +5V	4Hz
SCMSB32-02	0 to 20mA	0 to +5V	4Hz
SCMSB32-11	4 to 20mA	0 to +5V	1kHz
SCMSB32-12	4 to 20mA	±5V	1kHz
SCMSB32-13	4 to 20mA	0 to +10V	1kHz
SCMSB32-14	4 to 20mA	±10V	1kHz

ISOLATED TRUE RMS INPUT MODELS

MODEL	INPUT (rms)	OUTPUT (dc)
SCMSB33-01	0 - 100mV	0 - 5V
SCMSB33-02	0 - 1V	0 - 5V
SCMSB33-03	0 - 10V	0 - 5V
SCMSB33-04	0 - 150V	0 - 5V
SCMSB33-05	0 - 300V	0 - 5V
SCMSB33-06	0 - 1A	0 - 5V
SCMSB33-07	0 - 5A	0 - 5V

SCMSB33-01B	0 - 100mV	0 - 1mA
SCMSB33-02B	0 - 1V	0 - 1mA
SCMSB33-03B	0 - 10V	0 - 1mA
SCMSB33-04B	0 - 150V	0 - 1mA
SCMSB33-05B	0 - 300V	0 - 1mA
SCMSB33-06B	0 - 1A	0 - 1mA
SCMSB33-07B	0 - 5A	0 - 1mA

SCMSB33-01C	0 - 100mV	4 - 20mA
SCMSB33-02C	0 - 1V	4 - 20mA
SCMSB33-03C	0 - 10V	4 - 20mA
SCMSB33-04C	0 - 150V	4 - 20mA
SCMSB33-05C	0 - 300V	4 - 20mA
SCMSB33-06C	0 - 1A	4 - 20mA
SCMSB33-07C	0 - 5A	4 - 20mA

SCMSB33-01D	0 - 100mV	0 - 10V
SCMSB33-02D	0 - 1V	0 - 10V
SCMSB33-03D	0 - 10V	0 - 10V
SCMSB33-04D	0 - 150V	0 - 10V
SCMSB33-05D	0 - 300V	0 - 10V
SCMSB33-06D	0 - 1A	0 - 10V
SCMSB33-07D	0 - 5A	0 - 10V

SCMSB33-01E	0 - 100mV	0 - 20mA
SCMSB33-02E	0 - 1V	0 - 20mA
SCMSB33-03E	0 - 10V	0 - 20mA
SCMSB33-04E	0 - 150V	0 - 20mA
SCMSB33-05E	0 - 300V	0 - 20mA
SCMSB33-06E	0 - 1A	0 - 20mA
SCMSB33-07E	0 - 5A	0 - 20mA

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

MODEL	TYPE***	INPUT RANGE
SCMSB34-01	100Ω Pt	-100°C to +100°C
SCMSB34-02	100Ω Pt	0°C to +100°C
SCMSB34-03	100Ω Pt	0°C to +200°C
SCMSB34-04	100Ω Pt	0°C to +600°C

SCMSB34C-01	10Ω Cu at 0°C	0°C to +120°C
SCMSB34C-02	10Ω Cu at 25°	0°C to +120°C
SCMSB34C-03	10Ω Cu at 0°	0°C to +160°C

SCMSB34N-01	120Ω Ni	0°C to +300°C
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LINEARIZED 4- WIRE RTD INPUT MODULES (0 to +5V output, 4Hz BW)

MODEL	TYPE***	INPUT RANGE
SCMSB35-01	100Ω Pt	-100°C to +100°C
SCMSB35-02	100Ω Pt	0°C to +100°C
SCMSB35-03	100Ω Pt	0°C to +200°C
SCMSB35-04	100Ω Pt	0°C to +600°C

SCMSB35C-01	10Ω Cu at 0°C	0°C to +120°C
SCMSB35C-02	10Ω Cu at 25°	0°C to +120°C
SCMSB35C-03	10Ω Cu at 0°	0°C to +160°C

SCMSB35N-01	120Ω Ni	0°C to +300°C
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POTENTIOMETER INPUT MODULES (4Hz BW)

MODEL	INPUT RANGE	OUTPUT RANGE*
SCMSB36-01	0 to 100Ω	0 to +5V
SCMSB36-02	0 to 500Ω	0 to +5V
SCMSB36-03	0 to 1KΩ	0 to +5V
SCMSB36-04	0 to 10KΩ	0 to +5V

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

MODEL	TYPE**	INPUT RANGE
SCMSB37J	J	-100°C to +760°C
SCMSB37K	K	-100°C to +1350°C
SCMSB37T	T	-100°C to +400°C
SCMSB37E	E	0°C to +900°C
SCMSB37R	R	0°C to +1750°C
SCMSB37S	S	0°C to +1750°C
SCMSB37B	B	0°C to +1800°C
SCMSB37C	C	-100°C to +1300°C

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

MODEL	INPUT	EXCITATION
10kHz		
SCMSB38-01	-31 ±10mV Full Bridge Input, (3mV/V) 100 to 10KΩ	3.333V
SCMSB38-02	-32 ±30mV Full Bridge Input, (3mV/V) 300 to 10KΩ	10.000V
SCMSB38-03	-33 ±10mV Half Bridge Input, (3mV/V) 100 to 10KΩ	3.333V
SCMSB38-04	-34 ±30mV Half Bridge Input, (3mV/V) 300 to 10KΩ	10.000V
SCMSB38-05	-35 ±20mV Full Bridge Input, (3mV/V) 300 to 10KΩ	10.000V
SCMSB38-06	-36 ±33.3mV Full Bridge Input, (3mV/V) 100 to 10KΩ	3.333V
SCMSB38-07	-37 ±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
SCMSB39-01	0 to +5V	4 to 20mA	400Hz
SCMSB39-02	±5V	4 to 20mA	400Hz
SCMSB39-03	0 to +5V	0 to 20mA	400Hz
SCMSB39-04	±5V	0 to 20mA	400Hz
SCMSB39-05	0 to 20mA	0 to 20mA	400Hz
SCMSB39-07	±10V	±20mA	275Hz
SCMSB392-01	0 to +5V	4 to 20mA	1kHz
SCMSB392-02	±5V	4 to 20mA	1kHz
SCMSB392-03	0 to +10V	4 to 20mA	1kHz
SCMSB392-04	±10V	4 to 20mA	1kHz

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

MODEL	INPUT RANGE	INTERFACE	OUTPUT RANGE
SCMSB392-0111	0 to ±5V	4 to 20mA	0 to +5V
SCMSB392-0212	±5V	4 to 20mA	±5V
SCMSB392-0313	0 to ±10V	0 to 20mA	0 to +5V
SCMSB392-0414	±10V	0 to 20mA	±10V

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

MODEL	INPUT RANGE	OUTPUT RANGE
SCMSB40-01	±10mV	±5V
SCMSB40-02	±50mV	±5V
SCMSB40-03	±100mV	±5V
SCMSB40-04	±10mV	0 to +5V
SCMSB40-05	±50mV	0 to +5V
SCMSB40-06	±100mV	0 to +5V

SCMSB41-01	±1V	±5V
SCMSB41-02	±5V	±5V
SCMSB41-03	±10V	±5V
SCMSB41-04	±1V	0 to +5V
SCMSB41-05	±5V	0 to +5V
SCMSB41-06	±10V	0 to +5V
SCMSB41-07	±20V	±5V
SCMSB41-08	±20V	0 to +5V
SCMSB41-09	±40V	±5V
SCMSB41-10	±40V	0 to +5V

GENERAL PURPOSE INPUT MODULES, DC EXCITATION

MODEL	MAXIMUM INPUT	OUTPUT*
SCMSB43-01	±1V	±5V
SCMSB43-02	±2V	±5V
SCMSB43-03	±3V	±5V
SCMSB43-04	±4V	±5V
SCMSB43-05	±5V	±5V
SCMSB43-06	±6V	±5V
SCMSB43-07	±7V	±5V
SCMSB43-08	±8V	±5V
SCMSB43-09	±9V	±5V
SCMSB43-10	±10V	±5V

FREQUENCY INPUT MODULES

MODEL	INPUT RANGE	OUTPUT RANGE*
SCMSB45-01	0 to 500Hz	0 to +5V
SCMSB45-02	0 to 1kHz	0 to +5V
SCMSB45-03	0 to 3kHz	0 to +5V
SCMSB45-04	0 to 5kHz	0 to +5V
SCMSB45-05	0 to 10kHz	0 to +5V
SCMSB45-06	0 to 25kHz	0 to +5V
SCMSB45-07	0 to 50kHz	0 to +5V
SCMSB45-08	0 to 100kHz	0 to +5V

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

MODEL	TYPE**	INPUT RANGE
SCMSB47J-01	J	0°C to +760°C
SCMSB47J-02	J	-100°C to +300°C
SCMSB47J-03	J	0°C to +500°C
SCMSB47K-04	K	0°C to +1000°C
SCMSB47K-05	K	0°C to +500°C
SCMSB47T-06	T	-100°C to +400°C
SCMSB47T-07	T	0°C to +200°C
SCMSB47E-08	E	0°C to +1000°C
SCMSB47R-09	R	+500°C to +1750°C
SCMSB47S-10	S	+500°C to +1750°C
SCMSB47B-11	B	+500°C to +1800°C
SCMSB47J-12	J	-100°C to +760°C
SCMSB47K-13	K	-100°C to +1350°C
SCMSB47K-14	J	0°C to +1200°C
SCMSB47N-15	N	-100°C to +1300°C

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

MODEL	INPUT RANGE	OUTPUT RANGE
SCMSB49-01	0 to +5V	±5V
SCMSB49-02	±5V	±5V
SCMSB49-03	±5V	0 to +5V
SCMSB49-04	0 to +10V	±10V
SCMSB49-05	±10V	±10V
SCMSB49-06	±10V	0 to +10V
SCMSB49-07	±10V	±10V

ACCESSORIES

MODEL	DESCRIPTION
SCMXFS-003	Package of 10, 4A fuses
SCMXEV	Single channel SCMSB evaluation board
SCMXPRT-001	Power supply, 1A, 5VDC, 120VAC U.S.
SCMXPRE-001	Power supply, 1A, 5VDC, 220VAC European
SCMXPRT-003	Power supply, 3A, 5VDC, 120VAC U.S.
SCMXPRE-003	Power supply, 3A, 5VDC, 220VAC European
SCMXRI	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.

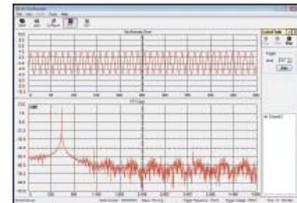
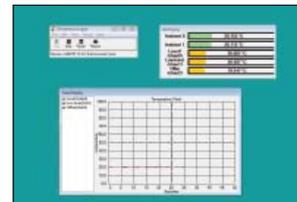


Chart Recorder

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

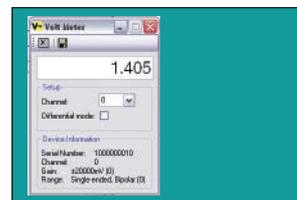
Hardware devices that have analog outputs can be used as a digital power supply for laboratories and other lower power requirements.

Signal Generator

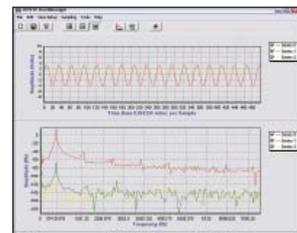
The signal generator application can be used with hardware that has the analog signal generation function to generate sin, saw tooth, or square waves.

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!

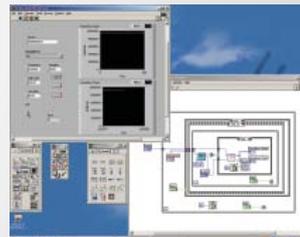
EDR Enhanced LabVIEW



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

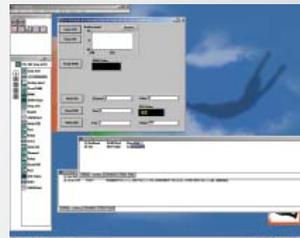


EDR Enhanced TestPoint

EDRE-Testpoint™ is an enhanced interface driver for CEC's TestPoint™ Data Acquisition Software Package (www.cec488.com). 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



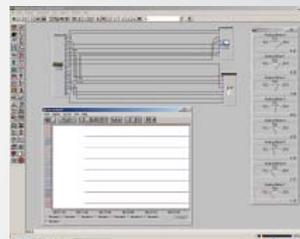
EDR Enhanced DasyLab

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



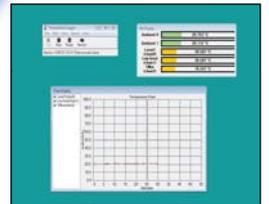
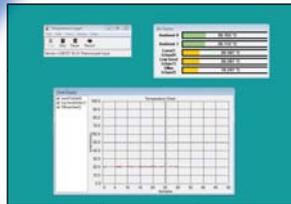
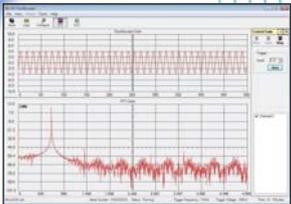
- Full support for Agilent VEE Pro™ & VEE OneLab™ version 6.01
- Easy to use A/D, DIO, Counter/Timer, D/A & Temperature functions
- Supports all Win32 platforms
- Examples provided
- Easy, Graphical Programming

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.



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

