

Ideal for Desktop/Laptop use



BT-48C-Back



## DESCRIPTION

The **MicroDAQ BT-48C and BT-96C** The MicroDAQ BT-48C/96C are general purpose digital I/O products with Counter / Timers which communicate to the host PC via a Wireless connection. They feature six 16-bit counter / timers and 48 or 96 (depending on model) programmable digital I/O channels. Based on the industry standard TTL 82C54 & 82C55 devices.

The units come supplied with a USB Wireless dongle which plugs into the PC to offer wireless communication. You can achieve a range of up to 10 metres depending on circumstances. Drivers are provided for the most popular operating systems, as well as for the WindowsCE® family of products including PocketPC2002 and PocketPC2003. This support allows the wireless MicroDAQ range to be controlled directly from a Wireless enabled palm held PC. Each unit is supplied with a WindowsCE API and control panel which is downloaded from a PC to the handheld device. Embedded Visual C++ and embedded Visual Basic examples are supplied.

Counter / timers can be used for frequency measurements, pulse counting, pulse width modulation and pulse generation. The counter / timers can also be programmed to generate events at specific intervals. This can be useful for time interval generation. The 48 or 96 (depending on model) TTL level digital I/O channels can be programmed as inputs or outputs in banks of 8. These digital I/O products are ideal for use in the connection between a computer and the outside world. Allowing computer programs not only to sense real world events, but control them as well. Applications include man-machine interfacing, driving high power loads, sensing switch contact closures and much more.

## FEATURES

- Interface: Wireless Connection
- 6x 16-bit Counter/Timers (82C54)
- 48/96 Digital I/O lines (6/12 x 8-bit ports) - TTL level
- I/O Connector: 3/5x DB25 Male
- LED indication for power & USB connection
- Ideal for Portable/Laptop Applications
- Housing: Plastic ABS with rubber feet
- Operating Temp: 0 to 70°C
- O/S Support for Windows 98/ME/XP/2000 & Linux
- Includes EDRE SDK, EDRE-Labview, EDRE-VEE, EDRE-Testpoint
- Includes WaveView for Windows Data Acquisition Software Application
- Power: 9VDC Operation (2.1mm DC socket)
- Supplied with a 1A 9VDC external PSU
- Power Consumption: 400mA / 510mA max
- Dimensions (BT-48C): 45(H) x 80(W) x 148(L) mm
- Dimensions (BT-96C): 65(H) x 80(W) x 148(L) mm

## Specifications

### Digital I/O (DIO)

No. of TTL Lines: 48 / 96 (Model Dependent)

### Logic Levels:

Input Low Voltage: -0.5V to 0.8V

Input High Voltage: 2.0V to 5.0V

Output High Voltage Min: 2.4V

Output Low Voltage Max: 0.45V

Maximum Output Current: 2mA

### Counter / Timers

Counters: 6 (82C54 / TTL compatible)

Resolution: 16-bit

Clock Source: Software Selectable

Internal 10MHz or External

Gate Source: Software Selectable

Software Controlled or External-Internal Pull-up

### 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

Digital I/O

### 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	DGND
CLK_EXT4	23	10	NC
OUT3	24	11	NC
GATE_EXT3	25	12	NC
	13		CLK_EXT3

C/T Connector



Wireless AC Power Supply

## Ordering Information

### Supplied with EDR Enhanced Software & Universal Switch Mode 9V PSU

BT-48C	Wireless 48 Channel DIO Unit with 6 Counter/Timers, USB Wireless Dongle & 2.4 GHz Antenna
BT-96C	Wireless 96 Channel DIO Unit with 6 Counter/Timers & USB Wireless Dongle & 2.4 GHz Antenna