

Ideal for Desktop/Laptop use



USB-48C Back



USB-96C Back



DESCRIPTION

The **MicroDAQ USB-48C and USB-96C** are counter / timer products for the usb bus. 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.

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 / interrupts 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

- USB Interface
- 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 (USB-48C): 45(H) x 80(W) x 148(L) mm
- Dimensions (USB-96C): 65(H) x 80(W) x 148(L) mm



USB-96C

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

Interrupt Source: 6 x Terminal Count

Optional Adaptors



ADPT-25-S



ADPT-25-M



ADPT-25-L



USB-96C with Adaptors

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

Ordering Information

Supplied with EDR Enhanced Software, 1.8 Mtr. USB Cable & Universal Switch Mode 9V PSU

USB-48C USB 48 Channel DIO Unit with 6 Counter/Timers

USB-96C USB 96 Channel DIO Unit with 6 Counter/Timers