

Ideal for Desktop/Laptop/PDA use



SRL-48C Front



SRL-48C Back



DESCRIPTION

The **MicroDAQ SRL-48C and SRL-96C** are counter / timer products with a serial interface. 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.

Two interface versions are available for the serial MicroDAQ range, these include RS-232 models and RS-485 models. The RS-232 models are best suited for short distances (up to 30 metres) or for use with hand held PC's such as PDA's. The RS-485 models allow for long distance data transmission (up to 1200 metres). These RS-485 models are ideally suited for process control applications in a plant or industrial environment, which require long cable runs.

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 serial MicroDAQ range to be controlled directly from a palm held PC with a serial port. 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

- Connects via RS232 or RS485
- 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
- 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 (SRL-48C): 45(H) x 80(W) x 148(L) mm
- Dimensions (SRL-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

Ordering Information

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

SRL-48C-RS232	RS232 48 Channel DIO Unit with 6 Counter/Timers & 2m RS232 cable
SRL-48C-RS485	RS485 48 Channel DIO Unit with 6 Counter/Timers & ADPT-9
SRL-96C-RS232	RS232 96 Channel DIO Unit with 6 Counter/Timers & 2m RS232 cable
SRL-96C-RS485	RS485 96 Channel DIO Unit with 6 Counter/Timers & ADPT-9

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-25 (M)

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

Analog