

Ideal for Desktop/Laptop use



USB-63-16



USB-63-32



DESCRIPTION

The MicroDAQ USB-63 is a general purpose digital I/O product for the USB bus, featuring 16/32 Reed Relay outputs and 24 TTL level Digital I/O lines. Based on the industry standard 82C55 PPI device, they communicate with the PC via the USB bus. The TTL Level Digital I/O can be programmed in banks of 8 as inputs or outputs.

The USB-62 with it's Reed Relay outputs eliminates the need for additional cables and Relay modules.

The USB-63 is powered by a Regulated 9VDC @ 1.2A Universal Input PSU, which is supplied with the unit.

FEATURES

- USB Interface
- 24 TTL Level DIO Lines
- 16 or 32 Reed Relay Digital Outputs (model dependent)
- I/O Connectors: 3x DB25 (USB-62-16); 5x DB25 (USB-62-32)
- LED Indication for power & USB connection
- Ideal for Portable, Laptop & Lab applications
- Housing: Plastic ABS with Rubber feet
- Operating Temp: 0 to 70°C
- Power: 260mA (USB-63-16); 420mA (USB-63-32) max
- O/S Support for Windows 98/ME/2000/XP & Linux
- Includes EDRE SDK, EDRE-Labview, EDRE-Testpoint and Waveview for Windows.
- Dimensions (USB-63-16) 45(H) x 80(W) x 148(L) mm (USB-63-32) 65(H) x 80(W) x 148(L) mm

Specifications

Digital I/O (DIO)

No. of TTL Lines: 24

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

Reed Relay Characteristics

Number of channels: 16 or 32

Relay Contact Data

Contact Form: Form A (SPST)

Rated Power: 20W (max)

Switching Voltage: 200VDC (max) (DC or peak AC)

Switching Current: 1A (max) (DC or peak AC)

Carry Current: 1.25A (max) (DC or peak AC)

Contact Resistance: 0.15 Ohm (Static); 0.2 Ohm (Dynamic)

Breakdown Voltage: 320 VDC (min) (Across Contacts)

4200 VDC (min) (Contact to Coil)

Switching Time: 0.5mS

Release Time: 0.1mS

Ordering Information

Supplied with EDR Enhanced Software, 1.8Mtr USB Cable, Universal Switch Mode 9V PSU & CJC Screw Terminal Adaptor

USB-63-16 USB 24 Channel DIO Unit with additional 16 Reed Relay Digital Outputs

USB-63-32 USB 24 Channel DIO Unit with additional 32 Reed Relay Digital Outputs



USB-63-16 Front



USB-63-16 Rear



USB-63-32 Front



USB-63-32 Rear

DIGITAL I/O (0-23)

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

Front Lower DB25 Connector for 16 & 32 channel unit

REED RELAY O/P (0-7)

RELAY 0 (2)	14	1	RELAY 0 (1)
RELAY 1 (2)	15	2	RELAY 1 (1)
RELAY 2 (2)	16	3	RELAY 2 (1)
RELAY 3 (2)	17	4	RELAY 3 (1)
RELAY 4 (2)	18	5	RELAY 4 (1)
RELAY 5 (2)	19	6	RELAY 5 (1)
RELAY 6 (2)	20	7	RELAY 6 (1)
RELAY 7 (2)	21	8	RELAY 7 (1)
NC	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Front Upper DB25 Connector Unit for 16 Channel unit & Front Centre DB25 Connector for 32 channel unit

REED RELAY O/P (8-15)

RELAY 8 (2)	14	1	RELAY 8 (1)
RELAY 9 (2)	15	2	RELAY 9 (1)
RELAY 10 (2)	16	3	RELAY 10 (1)
RELAY 11 (2)	17	4	RELAY 11 (1)
RELAY 12 (2)	18	5	RELAY 12 (1)
RELAY 13 (2)	19	6	RELAY 13 (1)
RELAY 14 (2)	20	7	RELAY 14 (1)
RELAY 15 (2)	21	8	RELAY 15 (1)
NC	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Rear Upper DB25 Connector for 16 Channel unit & Rear Centre DB25 Connector for 32 channel unit

REED RELAY O/P (16-23)

RELAY 16 (2)	14	1	RELAY 16 (1)
RELAY 17 (2)	15	2	RELAY 17 (1)
RELAY 18 (2)	16	3	RELAY 18 (1)
RELAY 19 (2)	17	4	RELAY 19 (1)
RELAY 20 (2)	18	5	RELAY 20 (1)
RELAY 21 (2)	19	6	RELAY 21 (1)
RELAY 22 (2)	20	7	RELAY 22 (1)
RELAY 23 (2)	21	8	RELAY 23 (1)
NC	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Front Upper DB25 Connector for 32 channel unit

REED RELAY O/P (24-31)

RELAY 24 (2)	14	1	RELAY 24 (1)
RELAY 25 (2)	15	2	RELAY 25 (1)
RELAY 26 (2)	16	3	RELAY 26 (1)
RELAY 27 (2)	17	4	RELAY 27 (1)
RELAY 28 (2)	18	5	RELAY 28 (1)
RELAY 29 (2)	19	6	RELAY 29 (1)
RELAY 30 (2)	20	7	RELAY 30 (1)
RELAY 31 (2)	21	8	RELAY 31 (1)
NC	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Rear Upper DB25 Connector for 32 channel unit