

24 Differential I/O IndustryPack Module



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Features

- 24 TTL-level digital I/O lines on a single-wide IndustryPack
- All lines have LineSafe ESD protection
- Each line programmable as input or output
- Double-buffered input and output
- Cascadable external clock triggers double-buffering

The IP-UD-E digital I/O IndustryPack provides 24 flexible input/output signal lines with TTL-level inputs and outputs. Outputs will sink up to 4 mA of continuous load current. Inputs will handle TTL levels. Each line may be dynamically and individually configured for either input or output, providing maximum flexibility. Inputs and outputs may be double buffered, making the IndustryPack compatible with simulation systems requiring many inputs and outputs to be latched simultaneously.

Writing a one to any line turns off the output driver, allowing a passive pull up resistor to set the line to a logic high. Writing a zero to any line turns on the driver, driving the line to a logic low. For input use, a one is written to the corresponding line—this is the power up default. For output use, the binary value desired is written to the corresponding line.

Input and output lines may double buffered by providing an external clock. A bit in the Control Register selects the polarity of this clock, allowing inputs and outputs to be latched on either the rising or falling clock edge. Any CMOS/TTL compatible clock source may be used.

The IndustryPack can function in a Master/Slave Mode for synchronizing multiple IndustryPacks. In this mode, the Master IndustryPack redrives the external clock source out I/O line 23. This line becomes the Master Clock, which should be wired to I/O line 24 on the Master and all Slave IndustryPacks.

Reset turns off the open collector output driver and sets disables double buffering for a consistent software interface.

Windows NT drivers are available.

Specifications

Form Factor	Single-wide Type I IndustryPack
IndustryPack Interface	Complies with ANSI/VITA-4
Interface Speed	8 MHz
Wait States	None
Number of Digital Lines	24 individually programmable and input or output
Input Driver	TTL levels
Output Driver	TTL levels. 4 mA sink capability, 10 kOhm pullup.
ESD Protection	Included
Interrupts	None
Dimensions	1.8 inches x 3.9 inches
Weight	0.06 kg (0.1 lb)
Power Requirements (no load)	+5 VDC, 30 mA typ
Environmental	Operating temperature: 0° to +70°C Humidity: 5% to 95% non-condensing Storage: -40° to +85°C

Order Information

IP-UD-E	IndustryPack with 24 TTL-level I/O lines and ESD protection
ND-SDPACK	Windows NT IndustryPack drivers
C-IP50M-IP50M-3	Three foot 50 conductor ribbon cable
C-IP50M-IP50M-6	Six foot 50 conductor ribbon cable
C-CM50M-IP50M	Three foot Champ50 male to ribbon cable
C-HD50M-HD50M	Six foot HD50 male to HD50 male cable
C-HD50M-CM50M	Six foot Champ50 male to HD50 male cable
IP-TERM	50 screw terminal block with ribbon cable connector
IP-TERM-HD50	50 screw terminal block with HD50 female connector

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