

- Embedded rugged computers
- -40° to 85° C
- Embedded operating systems
- COTS—high reliability

Digital I/O for PC/104 expansion

The 2656 is a PC/104 expansion card that provides 56 digital I/O lines. Forty-eight of the lines are I/O, four lines are opto-isolated inputs, and four lines are high-current outputs. The 48 digital I/O lines are implemented with Octagon's proprietary EZ/IO chip. This chip has provided high reliability over extreme temperature ranges for many years.

Octagon offers a wide range of terminal blocks and opto racks to assist you in configuring a system that best suits your application.

Features

I/O:

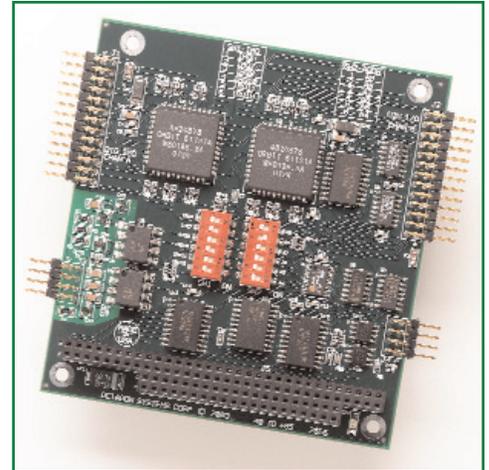
- ◆ 48 lines of TTL digital I/O
- ◆ Individually programmable as inputs or outputs
- ◆ Interfaces to Octagon MPB opto rack or STB-26 terminal block
- ◆ Sink current 15 mA at 0.5V, minimum
- ◆ Source current -15 mA at 2.4V, minimum
- ◆ +5V source provided for opto rack; fused at 750 mA.

FOUR OPTO-ISOLATED INPUTS:

- ◆ Activation voltage (logic "1") 4—13V
- ◆ Must not activate (logic "0") 1.5V minimum
- ◆ Input current 5 mA maximum @ 13V.
- ◆ Isolation voltage 500 VRMS minimum
- ◆ All inputs returned to a common, isolated return
- ◆ Input 0 can be routed to an interrupt, selectable via DIP switch.

FOUR HIGH-CURRENT OUTPUTS:

- ◆ Sink current 1.0A at 0.5V
- ◆ Load voltage 40V maximum
- ◆ All outputs tied to a common ground
- ◆ Dedicated digital I/O; 24 lines.



DRIVERS:

- ◆ Drivers provided for DOS, QNX, Windows CE.net®, and Linux.

BASE ADDRESS:

- ◆ Programmable via DIP switch from 000h to 3F0h
- ◆ Stacking with other PC/104 cards
- ◆ Standard PC/104 mounting.

ENVIRONMENTAL & POWER:

- ◆ -40° to 85° C operating
- ◆ -55° to 95° C nonoperating
- ◆ 5% to 95%, RH, noncondensing)
- ◆ Size 3.55" x 3.755" x 0.50", PC/104 form factor
- ◆ 5V ±5%, idle approximately 20 mA, all I/O active with maximum loading approximately 800 mA; drawn from PC/104 connector.

ORDERING INFORMATION

#6375 2656 PC/104 digital I/O card