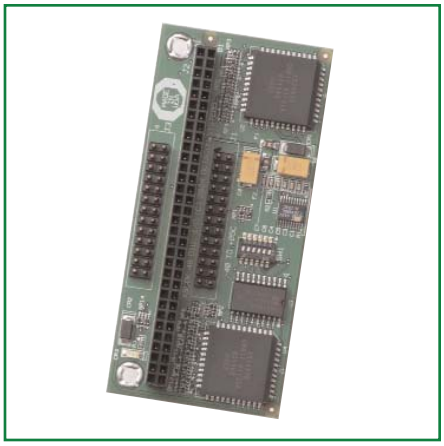
X–DIO–48 digital I/O card from the XBLOK™ series

The X–DIO–48 provides 48 lines of digital I/O. The digital I/O lines are TTL compatible. Each line is individually programmable as an input or output, and will sink or source 15 mA. These lines will interface with logic devices, switch inputs, LEDs, and industry–standard opto module racks. A DIP switch selects the base address, from 100h to 3f0h in 16–byte increments.

Octagon has a variety of opto modules and termination boards for easy access for field wiring. Use isolator modules when driving or receiving signals from high voltage and/or high current devices. Opto–isolation also eliminates ground loops and significantly reduces the chance that noise will invade the system.



XBLOK products are 44 percent the size of a standard PC/104 module.

XBLOK form factor

XBLOK products are 44 percent the size of a standard PC/104 module. The X–DIO–48 uses the 8–bit PC/104 connector to access the ISA Bus. XBLOK cards use either the PC/104 connector for 8– or 16–bit access to the ISA Bus, or the PC/104–*Plus* connector for 32–bit access to the PCI Bus. This allows designers to mix and match I/O functions while only taking up one stack layer. This compact interface board is a member of a family of Octagon products that provide specific functions for embedded PC/104 and PC/104–*Plus* systems.

See diagram for mounting position.

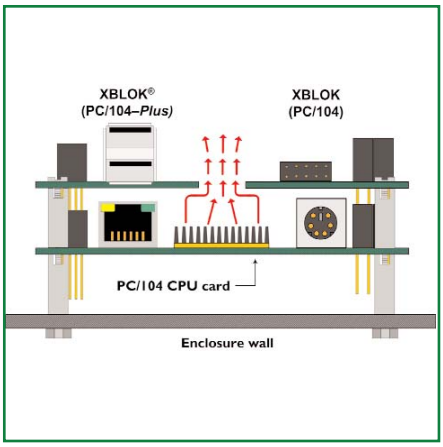


Diagram shows mounting scheme for using XBLOKs in PC/104 or PC/104–*Plus* systems.

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Features

Digital I/O:

- 48 lines of digital I/O, 5V levels
- Individually bit–programmable as input or output
- Each line can sink or source 15 mA
- All lines pulled low with a 10KΩ resistor

PC/104 interface:

- Connects to the 8–bit PC/104 header

Connectors:

- Two 26–position, non shrouded connectors
- Mates with Octagon CMA–26 cable, for direct connection to opto module racks, termination boards or other devices

Base address:

- DIP switch–selectable ISA base addresses of 100h, 110h, 120h, 130h, etc. through 3f0h, in 16–byte increments

Environmental:

- –40° to 85° C operating
- –55° to 95° C nonoperating
- 5% to 95%, RH, noncondensing
- Up to 40g shock, 3 axis
- Up to 5g vibration, 3 axis
- Size: 3.55" x 1.65" x 0.43", XBLOK form factor
- Mounting holes and connector are PC/104 compliant
- Power: 5V ±5%, supplied via PC/104 connector @ 11 mA with all outputs off, 731 mA maximum with all outputs driven

Ordering information

#6466 X–DIO–48 digital I/O card

Accessories ordering information

#2776 CMA–26–12, 12″ cable for IO port, 26–pin

#1257 CMA–26–24, 24″ cable for IO port, 26–pin

#2905 STB–26, terminal board, 26–position

#1183 TBD–100, terminal board with LED indicators

#2395 G4–IAC5, input module, 90–140 VAC

#2396 G4–IAC5A, input module, 180–280 VAC

#2397 G4–IDC5, input module, 15–32 VDC

#2511 G4–IDC5B, input module, 4–16 VDC

#2529 G4–IDC5D, input module, 2.5–28 VDC

#2398 G4–OAC5, output module, 12–140 VAC

#2399 G4–OAC5A, output module, 24–280 VAC

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