X–COM–2 dual serial card from the XBLOK™ series

The X–COM–2 has two ports configurable for RS–232, RS–422 and RS–485 interfaces with asynchronous baud rates to 115.2 kbaud. A DIP switch selects the base address, from 100h to 3e0h in 32–byte increments. All interfaces are slew–rate limited, reducing the EMI levels and ESD protected to 15 kV per IEC61000–4–2. The fault protection of ±60V for the RS–422 (four–wire) and RS–485 (two–wire) configurations goes far beyond the original specification.

Other advanced features are the support of 128 nodes for RS–485 and fail–safe receivers that have a valid output even for shorted, open and inactive data lines. The interrupts outputs of the UART are shared and can be switched to IRQ5, 6, 7, 9, 10, 11, 12 and 15. Standard drivers for most operating systems apply.

Octagon products are designed and manufactured with exacting specifications under the supervision of a Quality Management System that is ISO 9001–2000 certified. This rugged expansion card will provide years of reliable service in the most challenging environments.

XBLOK form factor

XBLOK products are 44 percent the size of a standard PC/104 module. 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. The X–COM–2 uses the 16–bit PC/104 connector. 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.



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

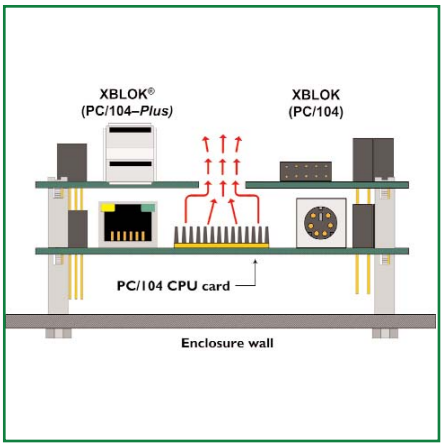


Diagram shows mounting scheme for using XBLOKs in PC/104 or PC/104–*Plus* systems.

6510 W. 91st Avenue • Westminster CO 80031 • 303–430–1500
www.octagonsystems.com

Features

Serial ports:

- Two fully programmable asynchronous, serial ports
- Data lines protected to 15 kV
- RS–422 & RS–485 are fault protected to ±60V
- Up to 128 nodes are supported for RS–485
- Outputs are slew–rate controlled to reduce radiation
- Supports all standard baud rates to 115.2 kB
- Jumperable to one of eight interrupts

PC/104 interface:

- Connects to the 16–bit PC/104 header. All signal and power lines are passed through.

Connectors:

- Two 10–position, 0.1″, shrouded connectors

Base address:

- DIP switch–selectable ISA base addresses of 100h through 3e0h, in 32–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%, TBD mA, supplied by PC/104 connector

Ordering information

#6468 X–COM–2 dual serial XBLOK

Accessories ordering information

#2746 VTC–9F serial cable, 72″ flat cable female DB–9 connector

#2472 VTC–9M serial cable, 72″ flat cable male DB–9 connector

6510 W. 91st Avenue • Westminster CO 80031 • 303–430–1500
www.octagonsystems.com