BLACK BOX®
NETWORK SERVICES

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SERIAL ←→ PARALLEL CONVERTER III AND IV

Serial to parallel or parallel to serial—automatically.
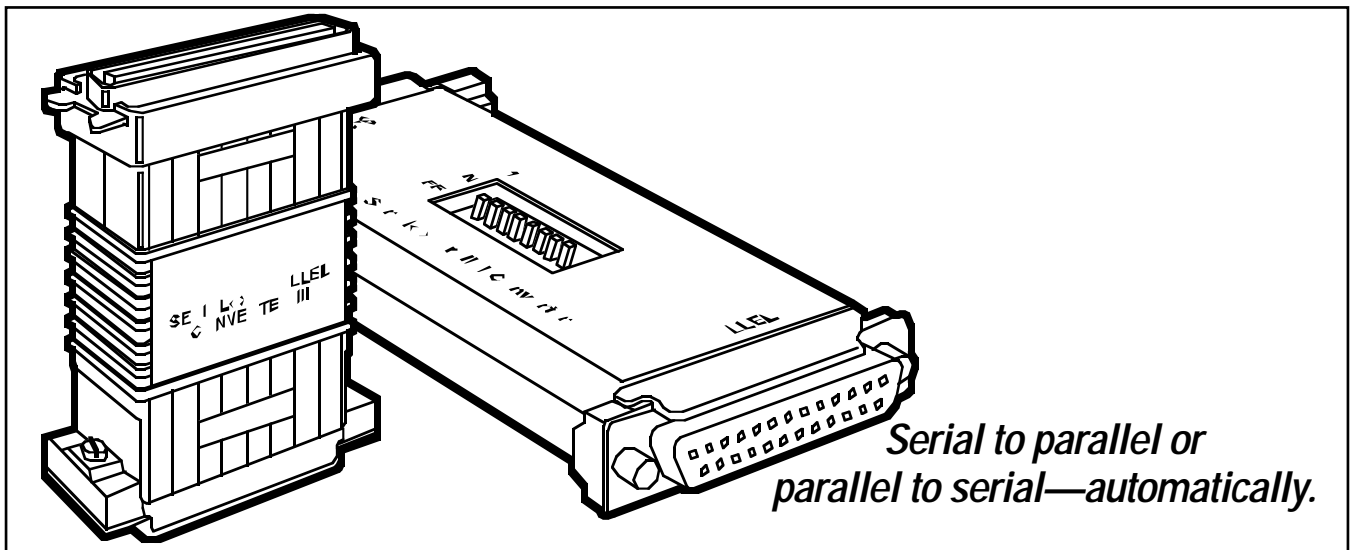
Key Features

▶ *Converts parallel data to serial data and vice versa.*

▶ *Automatically selects parallel-to-serial and serial-to-parallel operation and DCE/DTE modes.*

▶ *Serial data rates up to 38.4 kbps.*

▶ *Supports both software and hardware flow control.*

▶ *Includes adapter for low-power interfaces.*

▶ *PI1115A works with 25-MHz (and higher) machines.*

The Serial↔Parallel Converter III or IV converts RS-232 serial data to parallel data format and vice versa.

Incorporating advanced microprocessor technology, the Serial↔Parallel Converter III automatically senses and selects parallel and serial modes, as well as DCE/DTE modes. The Serial↔Parallel Converter IV senses and selects DCE mode. Both models are compatible with all popular printers and computers.

Choose from a wide range of speeds—from 300 bps to 38.4 kbps for the Converter III or 300 bps to 115.2 kbps for the Converter IV—to match the speed of your serial equipment.

Housed in a miniature ABS plastic case, the Serial↔Parallel Converter III comes with a DB25 female connector on the serial side and a male Centronics® parallel interface on the parallel side. The Serial↔Parallel Converter IV has two DB25 female connectors—one on the serial side and the other on the parallel side.

Configuration is easy: just set a few switches. You can select data rates, parity, word length, and flow control. To determine if the Serial↔Parallel Converter III is operating properly, simply flip DIP-Switch 2 to the "ON" position. This activates the self-test in the direction of the serial or parallel interface, depending on the position of DIP-Switch 1. When self-test is activated, the unit outputs a "barber pole" pattern that represents every ASCII character on a standard keyboard. The Serial↔Parallel Converter IV, however, does not have a self-test.

The converter is also easy to install and extremely reliable. Once it's configured, just plug the unit into a standard cable and you're ready to go. Configured and installed properly, the converter operates transparently as if it were a standard cable connection.

While the Serial↔Parallel Converter III can usually receive its power from the RS-232 interface (there's no on/off switch), it also comes with a wallmount power supply in case you need to use it in low-power applications. Simply connect the wall transformer, and the unit should power up as soon as it's plugged into an AC outlet.

If not enough power to the RS-232 interface is received on the Serial↔Parallel Converter IV, you will need a power supply (PS1002), which is ordered separately.

Specifications

PI115A-C, PI115AE-C

Data Format: 7 or 8 data bits; 1 or 2 stop bits; even, odd, or no parity

Data Rates: 38.4, 19.2 kbps; 9600, 4800, 2400, 1200, 600, or 300 bps (user-selectable)

Flow Control: Hardware or software

Diagnostics: Self-test ON or OFF

Leads Supported: Serial: Pins 1, 2, 3, 4, 5, 7, 8, 9, 11, 19, 20; Parallel: Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 18, 32

Protocol: Serial: Asynchronous; Parallel: Centronics

User Controls: (1) 8-position DIP switch for data rate, parity, bit error rate, self-test, and flow control

Interface: Asynchronous, RS-232C compatible

Connectors: (1) DB25 F, (1) Centronics® 36-pin M

MTBF: 115,000 hours

Temperature Tolerance: 32 to 140°F (0 to 60°C)

Humidity Tolerance: 5 to 95%, noncondensing

Power: From the interface or from power supply; PI115A-C: 120 VAC, 60 Hz; PI115AE-C: 230 VAC, 50 Hz

Size: 4.4"H x 2.9"W x 0.8"D (11.2 x 7.4 x 2 cm)

Weight: 2.6 oz. (73.7 g)

PI1115A

Buffer: 96 bytes

Data Format: 7 data bits, even or odd parity; 8 data bits, no parity, 1 stop bit

Data Rates: 115.2, 57.6, 38.4 kbps; 9600, 4800, 2400, or 1200 bps (user-selectable)

Flow Control: Serial: Hardware handshaking DTR software X-ON/X-OFF; Parallel: Hardware (Busy, Acknowledge)

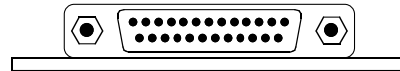**Diagnostics:** None

Protocol: Serial: Asynchronous; Parallel: DB25

Interface: Asynchronous RS-232 serial and parallel DB25

Connectors: (2) DB25 F

Power: From the interface, DTR and RTS, or 120 VAC, 60 Hz from the optional power supply (PS1002)

Size: 4.3"H x 1.7"W x 0.8"D (10.9 x 4.3 x 2 cm)

Weight: 1 lb. (0.5 kg)

This port is a DB25 female for RS-232 serial communication.

This port is a 36-pin Centronics male for parallel communication.

What the Package Includes

PI115A-C, PI115AE-C
- (1) converter
- (1) power adapter
- (1) users' manual

PI1115A
- (1) converter
- (1) users' manual

NOTE: The power supply for the PI1115A is ordered separately (part number PS1002).

Ordering Information

ITEM	CODE
Serial↔Parallel Converter III	
120-VAC Version	PI115A-C
230-VAC Version	PI115AE-C
Serial↔Parallel Converter IV	PI1115A
If the PI1115A converter doesn't draw enough power from the interface, you may need . . .	
Optional Power Supply for PI1115A	PS1002
For optimum performance and a 20% savings, order…	
RS-232 Cable	ECM25C
Centronics Compatible Cable	EQN380