



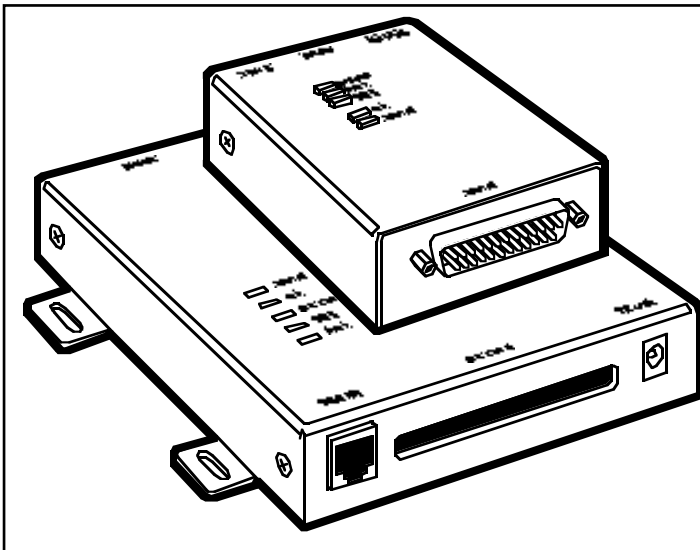
BLACK BOX[®]

NETWORK SERVICES

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10/100 SERIAL SERVERS



*Link wired or wireless serial devices
to your Ethernet network.*

Key Features

- ▶ **Extensive protocol support and configuration options.**
- ▶ **Create hard-wired or wireless links.**
- ▶ **Conserves host ports.**
- ▶ **Flash ROM support for easy upgrades.**
- ▶ **Lightweight, simple design fits easily into most networks.**
- ▶ **Full modem controls.**
- ▶ **Speeds up to 230 kbps.**
- ▶ **Network interface supports 10- or 100-Mbps speeds.**

The 10/100 Serial Server and the PC Card Serial Server are a great way to add serial devices to your mixed Ethernet networks. They enable you to add wired or wireless devices to your network without sacrificing host ports or taking up valuable space.

These Serial Servers provide a wide range of protocol and management support. The units support TCP/IP, which includes Telnet, Rlogin, UDP (User Datagram Protocol), and DSN (Domain Name Servers). They also support IPX/IP (NetWare) for downloading system files and LAT™ (Local Area Transport) for digital system support.

Both units can be used with applications on UNIX®, Windows NT®, OS/2®, or LAT platforms through a TCP/IP or SPX socket interface. On any platform, the host operates with the Serial Servers as directly attached

devices, enabling, among other applications, emulation of a direct serial connection.

These devices are also supported with command interfaces that enable you to configure each unit, connect to remote services, manipulate connections, or receive feedback. These general command parameters are supported by an extensive set of status display commands that enable you to manage almost every aspect of the devices' function. They include the following:

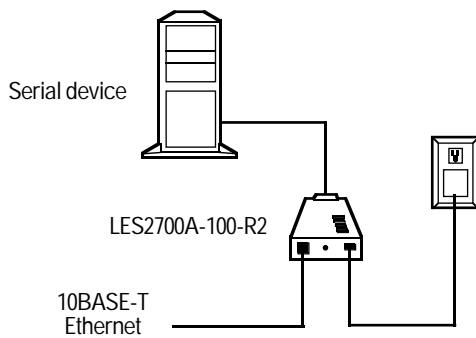
- **Show Host List:** Used for multiple host connections; numbered 1 to 8.
- **Show IPsecurity:** Shows current security tables and restrictions per address.
- **Show NetWare:** Displays information related to IP/SPX connections.
- **Show Ports:** Indicates status

and configuration of the serial port.

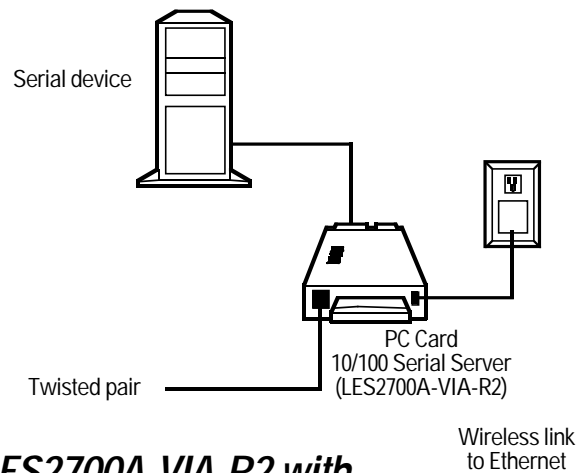
- **Show Server Characteristics:** Displays network-related server information.
- **Show Services:** Shows characteristics of LAT services offered on the network.
- **Show Sessions:** Used to show active port, user, and session type.
- **Show Users:** This command displays the name, port number, and connection status of all current users.

In addition to these features, The PC Card Serial Server (LES2700A-VIA-R2) supports a 10-/100-Mbps wireless link—adding another dimension to your network—as well as a modem emulation mode. In this mode, the units accept AT style modem commands and saves you the trouble of tying up a phone line.

Application Diagrams



LES2700A-100-R2 linking a serial device to a 10BASE-T network.



LES2700A-VIA-R2 with a wireless Ethernet link.

Specifications

Approvals: FCC, UL[®], TUV, CE

Management: DHCP, HTTP, SNMP, Telnet, LAT; LES2700A-VIA-R2: DB9 console port

Protocols: IPX[™], LAT, TCP/IP

Compatibility: Ethernet: IEEE 802.3, IEEE 802.3u

Data Rates: Up to 230 kbps

Serial Line Formats:

LES2700A-100-R2:
Characters: 7 or 8 data bits;
Stop bits: 1 or 2;
Parity: odd, even, mark space, or none

PC Card Support: LES2700A-VIA-R2: Type I/II PC Cards

Device Support: LES2700A-100-R2: Any RS-422/RS-232 device; LES2700A-VIA-R2: Any RS-232/RS-485 device

Modem Control: Both: DSR/DTR and RTS/CTS; LES100A-VIA-R2: CD

Flow Control: X-ON/X-OFF, hardware flow control

Software: Flash ROM standard: downloadable from TCP/IP host (TFTP download), DECnet[™] host (MOP download), or NetWare[®] file server

Upgrades: Flash ROM standard TFTP downloads

Interface: LES2700A-100-R2: Serial: RS-232/422 (DTE); Network: (1) 10/100BASE-TX; LES2700A-VIA-R2: Serial: RS-232/485 (DTE); Network: (1) 10/100BASE-TX, (1) PC card Type I/II slot

Connectors: Serial: (1) DB25; Network: (1) RJ-45

Indicators: LES2700A-100-R2: Power, Link, OK, Speed, Received Data; LES2700A-VIA-R2: Link, OK, Speed, PC Card Activity, Serial Port Activity

Operating Temperature: 41 to 122°F (5 to 50°C)

Storage Temperature: -40 to +151°F (-40 to +66°C)

Power: 110–220 VAC, 50–60 Hz autosensing external power supply

Size: LES2700A-100-R2: 0.9"H x 2.5"W x 3.5"D (2.3 x 6.4 x 8.9 cm); LES2700A-VIA-R2: 1"H x 4.8"W x 7"D (2.5 x 12.2 x 17.8 cm)

Weight: LES2700A-100-R2: 0.8 lb. (0.4 kg); LES2700A-VIA-R2: 3.6 lb. (1.6 kg)

Common applications . . .

- Blood analyzers
- LAN security devices
- PBX accounting systems
- Card readers
- Remote power management
- Industrial Controllers
- Telecommunications equipment
- Call center displays
- Security alarms
- Time attendance clocks
- Badge access control
- Customer traffic measurement
- High-end fax machines
- Electronic key systems
- Radiation equipment
- Marine equipment
- Data loggers
- Chromatography equipment
- Oil rig monitors
- Satellite receivers
- Station Adapters
- ATM machines
- Inventory tracking
- Heart monitors
- Power meter measurement
- Robotic controls
- Electronic maps
- Chemical monitors
- Weather stations
- Rocket launch pad telemetry equipment

You may also need . . .

- RS-232 Unshielded Cables, (NEC[®] CL2), 25-Conductor (ECM25C)
- GigaBase[®] 350 CAT5e Patch Cable, 350-MHz, 4-Pair, Straight-Pinned, PVC, Beige (EVNSL85)

Ordering Information

ITEM	CODE
10/100 Serial Servers	
10/100 Serial Server (Standalone).....	LES2700A-100-R2
PC Card 10/100 Serial Server	LES2700A-VIA-R2