

Dual Serial Bridges

Access two serial devices
over copper, fiber, or
wireless Ethernet.



FEATURES

- » Simple to install and configure.
- » Choose from copper, fiber, or wireless models.
- » Dual serial ports are switch selectable to RS-232, RS-422, or RS-485.
- » Configure each serial port individually via Web browser.
- » Password security keeps out intruders.



LWS100A

OVERVIEW

Dual Serial Bridges enable you to easily connect two serial devices to your 10BASE-T, 100BASE-FX, or 802.11b Ethernet network.

Use a simple DIP switch to set the dual serial ports to RS-232, RS-422, or RS-485. The serial ports are individually configurable and manageable through any Web browser with a baud rate programmable for speeds from 110 bps to 230.4 kbps. You can also upgrade the firmware via a Web browser. Because the bridges are password protected, you never have to worry about unauthorized access.

The bridges include a configuration and management utility. An Auto Discovery function enables you to find any **Dual Serial Bridge** connected to your network.

The watchdog timer interrupts a "freeze" in case the system gets hung up.

Status LEDs and activity indicators help with installation, monitoring, and diagnostics.

The bridges are ideal for industrial applications. They feature an extended temperature range and are DIN rail mountable with the optional DIN Rail Mounting Kit (DR125).

Order the appropriate interface adapters to adapt a bridge's DB9 serial interface for RJ-45 or terminal strip connections.

Ethernet Dual Serial Bridges

These bridges feature an RJ-45 10BASE-T interface for connection to a 10BASE-T or 10BASE-T/100BASE-TX switch.

Fiber Dual Serial Bridges

Fiber **Dual Serial Bridges** feature a multimode or single-mode interface for connection to 100BASE-FX Ethernet. They enable you to access one or two serial devices over very long distances. Multimode models send data up to 2 kilometers (1.2 mi.); single-mode models send data up to 20 kilometers (12.4 mi.). Additionally, because fiber is immune to electrical interference, they're ideal for use in industrial areas with electrically "noisy" machinery.

Wireless Dual Serial Bridges

Choose wireless for use in areas where running cable is inconvenient. Wireless **Dual Serial Bridges** are 802.11b compliant and are compatible with your 802.11b and 802.11g wireless access points. The bridges include an antenna. The standard RSMA antenna connector supports many other antennas for extended range and performance. Wireless Dual Serial Bridges include WEP 64- and 128-bit encryption for security in addition to password security.

TECH SPECS

Specs Text Roman — **Baud Rate** — Programmable: 230.4, 115.2, 57.6, 38.4, and 19.2 kbps; 9600, 4800, 2400, 1200, 600, 300, 150, and 110 bps

Data Format — Programmable: 5, 6, 7, 8 bits

Environmental — Operating Temperature: -4 to +158°F (-20 to +70°C); Storage Temperature: -40 to +185°F (-40 to +85°C);

Relative Humidity: 95%, non-condensing

Flow Control — Hardware (RTS/CTS) or software (X-ON/X-OFF, None)

Protocols — TCP, UDP, IP, ICMP, HTTP, TFTP, ARP, DHCP Client, SNMP (get)

Serial Parity — Programmable: Even, Odd, None, Mask, Space

Serial Stop Bit — Programmable: 1 (default), 2 Bits

UART — 4096-byte buffer per direction

CE Approval — LES300AE, LFS400AE, LFS402AE, LWS100AE only

Connectors — LES300A, LES300AE: (2) DB9 M; (1) RJ-45;

LFS400A, LFS400AE: (2) DB9 M; (1) pair of ST;

LFS402A, LFS402AE: (2) DB9 M; (1) pair of SC;

LWS100A, LWS100AE: (2) DB9 M; (1) RSMA antenna

Indicators — LEDs: Power, Alarm, Link, Activity, RS-232, RS-422, RS-485

Power — LES300A, LFS400A, LFS402A, LWS100A: 110-VAC, 60 Hz external power supply;

LES300AE, LFS400AE, LFS402AE, LWS100AE: 220-VAC, 50-Hz external power supply

Size — LES300A, LES300AE: 0.9"H x 4.5"W x 3.5"D (2.3 x 11.3 x 8.9 cm);

LFS400A, LFS400AE, LFS402A, LFS402AE: 0.9"H x 4.5"W x 4.1"D

(2.3 x 11.3 x 10.5 cm);

LWS100A, LWS100AE: Without antenna: 0.9"H x 4.6"W x 3.5"D

(2.3 x 11.7 x 8.9 cm)

Weight — LES300A, LES300AE, LFS400A, LFS400AE, LFS402A, LFS402AE: 0.6 lb. (0.3 kg);

LWS100A, LWS100AE: 0.7 lb. (0.3 kg)

Item	Code
Ethernet Dual Serial Bridges, 10-BASE-T with 110-VAC Power Supply	LES300A
with 220-VAC Power Supply	LES300AE
Fiber Dual Serial Bridges, 10BASE-FX Multimode, ST, 2 km	
with 110-VAC Power Supply	LFS400A
with 220-VAC Power Supply	LFS400AE
Single-Mode, SC, 2 km	
with 110-VAC Power Supply	LFS402A
with 220-VAC Power Supply	LFS402AE
Wireless Dual Serial Bridges, 802.11b with 110-VAC Power Supply	LWS100A
with 220-VAC Power Supply	LWS100AE
You may also need...	
DB9 to RJ-45 RS-232 Adapter	LA126
DB9 to RJ-45 RS-422/485 Adapter	LA127
DB9 to Terminal Strip Adapter	LA128
DIN Rail Mounting Kit	DR125