

Ether-Serial Link Family

Ethernet-to-serial links simply and effectively network-enable serial devices. Lava's Ether-Serial Links are fully configurable with Telnet, a web browser, or the Windows-based *Lava Ether Link Manager*. The serial ports on these devices have versatile and powerful operating modes to suit almost any need. Ether-Serial Links provide fully standard remote serial ports that look to your operating system as if they were installed right in your PC, but that can be accessed over a network segment, a LAN, or even the Internet.



Ether-Serial Link Single Port

Ether-Serial Link Single Port

- One serial port supporting up to 115.2 kbps throughput (DB-9/RJ-45; RS-232/RS-422/RS-485)

Ether-Serial Dual Port

- Two serial ports supporting up to 115.2 kbps throughput (DB-9/RJ-45; RS-232/RS-422/RS-485) per port



Ether-Serial Link Dual Port

Ether-Serial Quad Port

- Four serial ports supporting up to 115.2 kbps throughput (DB-9/RJ-45; RS-232/RS-422/RS-485) per port



Ether-Serial Link Quad Port

All Ether-Serial Links have:

- Powerful serial port operating modes
- RJ-45 serial versions have 10-wire connectors with jumpered power configuration on Pin #10
- 10 Base-T Ethernet interface (RJ-45)
- Intuitive installation and configuration
- Auto-detection of Ether-Link devices using the *Ether Link Manager* software
- Support for: IP, HTTP, ICMP, TCP, TFTP, UDP
- Upgradable firmware
- Support for Windows 2000/XP/NT4, Linux 7.2+, QNX
- Power supply included

| Serial Port Mode | Description |
|------------------|---|
| Driver (default) | Serial port is enumerated on the host computer as a local COM port. Software on the PC can access the ESL ports as normal com ports. Applications: General serial port access from software running on a PC. |
| Raw Client | Raw TCP connection to an ESL port. The physical port on the ESL becomes a network resource with an IP address and port number. Applications: Remote monitoring, security systems. |
| Raw Server | Raw TCP connection to an ESL port. The physical port on the ESL is configured to initiate a connection to a pre-defined IP address and port number. Application: Remote device control, remote polled monitoring. |
| Data Connect | Combines Raw Client and Raw Server modes. The ESL will either initiate a TCP connection when activity is detected at the serial port, or it will receive TCP packetized serial data from the network port when an outside client connects to it. Applications: Provides a serial-to-serial communication link; can replace serial cables with an Ethernet connection. |
| RFC 2217 | ESL port allows port configuration commands and serial data to be sent to the ESL using RFC 2217 framework for serial port control over Telnet. Applications: UNIX systems and other platforms that have RFC 2217 Telnet capability can access and control the serial COM port of the ESL. |
| Ethernet Modem | Provides a standard "AT" command interface for communicating with devices over Ethernet, as well as control commands for the ESL. An ESL can "dial" an IP address and TCP port; incoming TCP connections are handled under AT command set rules. Applications: Remote console management, POS modem replacement. |
| RAS Server | The serial port of the RAS client device is attached to the serial port of the ESL. An IP address (configured by user) is assigned to RAS client. Applications: Windows CE embedded systems, Palm type units, or other portable data acquisition devices that may need access to a TCP/IP-Ethernet environment, and have PPP capability, but do not have a Ethernet port. |