

PL-SLTA Serial Network Adapter Model 76000



Description

The PL-SLTA (Power Line Serial Network Adapter) is a high-performance LONWORKS® interface for use with residential gateways, laptop, desktop, or embedded computers equipped with an EIA-232 serial interface and compatible software. Designed for use in LONWORKS control networks that require remote dial-in/dial-out network access or a host processor to monitor, manage, or diagnose the network, the PL-SLTA Network Adapter is ideal for home/building automation, industrial control, and process control applications.

The PL-SLTA Network Adapter provides a LNS™-compatible network services interface (NSI) for use with Echelon's residential gateway software and PC-based tools, such as the LonMaker™ Integration Tool.

Supplied in a plastic enclosure with rubber feet, the PL-SLTA Network Adapter allows access to configuration DIP switches without disassembly of the chassis, simplifying configuration of the adapter.

The PL-SLTA Network Adapter operates at 10MHz and includes an integral power line (PLT-22) transceiver, coupling circuit and power supply. Both CENELEC and non-CENELEC modes of operation are supported providing worldwide regulatory compliance for both residential, commercial, and utility applications.

LNS enabled tools such as the LonMaker Integration Tool (used by installers in many industries) and the LONWORKS Network Access Bundle for OSGi (used in residential gateways) can configure up to 32,385 control devices in a single LONWORKS control network and adapt to network configuration changes automatically. Users can reconfigure the system from user interface devices anywhere on the LONWORKS network or on the Internet, and ensure that all monitoring and control stations are always up-to-date with respect to the network's configuration.

- ▼ Serial EIA-232 interface connects residential gateways, host processors, and modems to LONWORKS® networks
- ▼ 1,200 to 115,200bps selectable serial bit rate
- ▼ Automatic dial-out with compatible modem
- ▼ Integral PLT-22 power line transceiver, power supply, and coupling circuit
- ▼ Configuration DIP switches accessible without opening chassis
- ▼ 100 - 240V AC 50/60 Hz power input via standard line cord
- ▼ Plastic enclosure
- ▼ Support for both CENELEC and non-CENELEC modes
- ▼ Worldwide regulatory compliance for residential, commercial, and utility applications

Input power is 100 – 240V AC, 50/60 Hz. Standard line cords are available for US, UK, Japan and Continental Europe.

An EIA-232 DB-9 connector is provided for connection to the host. The adapter is configured as a Data Circuit-terminating Equipment (DCE) device; a custom null modem cable allows the PL-SLTA Network Adapter to be connected to a modem. This cable is documented in the user's guide and may also be purchased from Echelon (Model 73380).

The PL-SLTA Network Adapter can be used with any modem recognizing the Hayes AT-command set to provide remote access to a LONWORKS network. The PL-SLTA Network Adapter supports LONWORKS network management messages for controlling an attached modem. Any node can initiate an outgoing call to a remote host by sending network management dialing messages to the adapter. A dialing directory may be stored in the PL-SLTA Network Adapter, enabling application nodes to dial out to remote hosts without requiring host phone numbers to be maintained in each node.

The PL-SLTA Network Adapter can be configured to automatically answer incoming calls so that remote LNS tools can call in to monitor, control, or manage the network at any time. A password may be installed in the adapter so that a remote user must enter the password before accessing any nodes on the network. For additional security, the PL-SLTA Network Adapter can be configured to call back only a pre-programmed phone number.

Specifications

Function	Description
Processor	Neuron [®] 3150 [®] Chip
Processor Input Clock	10MHz
Transceiver Type	PLT-22
Network Connector	Power line communication through power cord
Operating Input Voltage	100-240V ac @ 50/60 Hz
Operating Input Current	55mA@ 120V AC typical
Service Interface	Service switch and LED
Serial Port	EIA-232 (formerly RS-232)
Selectable Serial Bit Rate	1200, 2400, 9600, 14.4k, 19.2k, 38.4k, 57.6k, and 115.2k
Serial Modem Control	DTR and DSR
Serial Connector Type	Female DB-9
Temperature	
Operating	0 to +50°C
Non-operating	0 to +50°C
Humidity (non-condensing)	
Operating	25 to 90% RH @ 50°C
Non-operating	95% RH max @ 50°C
Dimensions	1.5" H x 5" W x 5" H (38.1mm x 129mm x 129mm)
Weight	10.3 ounces
EMI	FCC Part 15 Class B, EN55024 Class B
Listings	UL 60950, cUL C22.2 No. 60950-00, TÜV EN60950, CE, C-Tick

Documentation

The PL-SLTA, PL-PSG/3 Network Adapter User's Guide may be downloaded from Echelon's web site, or ordered through Echelon's literature fulfillment department.

Product	Echelon Part Number
LONWORKS PL-SLTA, PL-PSG/3 Adapter User's Guide	078-0188-01

Ordering Information

PL-SLTA Drivers are not shipped with the PL-SLTA hardware. Drivers ship with LonMaker for Windows (Model 37000), the LNS Application Developer's Kit for Windows (Model 34309), the LNS DDE Server (Model 37200), and the NodeBuilder Development Tool (Model 10010).

Drivers and documentation may also be downloaded from the developer's toolbox section of the Echelon Web site at <http://www.echelon.com>.

Product	Echelon Model Number
PL-SLTA Adapter - US Line Cord	76000-1
PL-SLTA Adapter - Continental Europe Line Cord	76000-2
PL-SLTA Adapter - UK Line Cord	76000-3
PL-SLTA Adapter - Japan Line Cord	76000-4
PL-SLTA Null Modem Cable	73380

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