

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ECHELON

Echelon PCLTA-20 PCI LonTalk Adapter

The Echelon 74401 PCLTA-20 PCI LonTalk Adapter is a interface card designed for PCs equipped with a 32-bit PCI slot. It enables solid connectivity to LonWorks networks, facilitating industrial control, building automation, and process control applications. This adapter supports both LNS Network Services Interface (NSI) and Microprocessor Interface Program (MIP) functionalities, allowing it to operate with LNS tools and LonManager API-based tools. The Echelon 74401 PCLTA-20 is engineered for reliable network monitoring, management, and diagnostics within LonWorks environments. Aumictech offers NIST-traceable calibration and repair for the Echelon 74401 / PCLTA-20. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger and synchronization bus functional



MODEL

**Echelon 74401 /
PCLTA-20**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

74401 / PCLTA-20

LISTING

<https://aumictechlabs.com/products/74401-pclta-20-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Echelon 74401 PCLTA-20 PCI LonTalk Adapter is a interface card designed for PCs equipped with a 32-bit PCI slot. It enables solid connectivity to LonWorks networks, facilitating industrial control, building automation, and process control applications. This adapter supports both LNS Network Services Interface (NSI) and Microprocessor Interface Program (MIP) functionalities, allowing it to operate with LNS tools and LonManager API-based tools. The Echelon 74401 PCLTA-

20 is engineered for reliable network monitoring, management, and diagnostics within LonWorks environments. Technical Specifications * Product Name: Echelon 74401 PCLTA-20 PCI LonTalk Adapter Interface Type: 32-bit PCI Network Protocol: LonTalk Transceiver Support: TP/FT-10A (Integral) * Other models in the PCLTA-20 series support TP/XF-78, TP/XF-1250, TP-RS485, and SMX transceivers. Operating Frequency: 10 MHz Host Interface: PCI Bus Software Compatibility: * Microsoft Windows 95, 98, Me, NT, 2000, XP, Server 2003 * OpenLDV 4.0 (or newer) runtime Plug and Play: Supported for simplified installation Firmware: Downloadable from the host PC, allowing for updates without physical modification of the card. Memory: 32 Kbytes of off-chip RAM for network and application buffers. Electrical and Mechanical * Form Factor: PCI adapter card Connector: * PCI Bus Connector * Network Connector: Removable screw terminal block for models with integral twisted pair transceivers. Interfaces * LNS Network Services Interface (NSI): For use with LNS tools. Microprocessor Interface Program (MIP): For use with LonManager API-based tools. Host PC Interface: 32-bit PCI slot Compatibility * Operating Systems: Compatible with various Microsoft Windows operating systems from Windows 95 through Windows Server 2003. LonWorks Tools: * LNS tools * LonManager API-based tools * LonMaker Integration Tool * LNS DDE Server * LNS Application Kit * OpenLDV Transceivers: Primarily TP/FT-10A for the 74401 model. Other PCLTA-20 models accommodate a range of transceivers including TP/XF-78, TP/XF-1250, TP-RS485, and SMX transceivers for various network types. Features * Integral Transceiver: The 74401 model includes an integral TP/FT-10A transceiver. Downloadable Memory: Allows for firmware updates and flexibility in adapting to new software versions. Network Management Interface: Facilitates network monitoring and diagnostics. Extended Service Life: Firmware updatability minimizes obsolescence and reduces update costs. Application Focus * Industrial Control: Provides a reliable interface for PC-based control systems. Building Automation: Enables integration of PCs into building management networks. Process Control: Supports PC-based monitoring and management of industrial processes. Why Choose Aumictech for the Echelon 74401 PCLTA-20 PCI LonTalk Adapter? At Aumictech, we specialize in sourcing and supplying industrial automation hardware. Whether you need a reliable Echelon 74401 PCLTA-20 PCI LonTalk Adapter for your existing network infrastructure, seamless integration into complex control systems, or solid diagnostic capabilities for your LonWorks applications, our team ensures that the Echelon 74401 PCLTA-20 PCI LonTalk Adapter delivers maximum performance and connectivity for your specific industrial or enterprise requirements.

74401PCLTA Characteristics / Specifications

PARAMETER	VALUE
Model	74401
Adapter Family	PCLTA-20
Instrument Type	PCI LonTalk network adapter
Processor	Neuron 3150
Processor Clock	10 MHz
Memory	58 Kbytes SRAM
Bus Interface	32 bit PCI
Operating Input Voltage	plus 5 VDC plus or minus 5 percent
Operating Input Current Typical	300 mA (74401 through 74404)
Operating Input Current Maximum	1 A (74401 through 74404)
Network Connector	Weidmuller 2-conductor BLA (74401, 74402, 74403)
Indicator	Service LED
Operating Temperature	0 C to plus 70 C
Nonoperating Temperature	minus 45 C to plus 85 C
Operating Humidity	25 to 90 percent RH non-condensing at 50 C
Nonoperating Humidity	95 percent RH at 50 C (12 hour)
Board Height	3.87 in (9.8 cm) excluding card edge fingers
Board Length	5.20 in (13.2 cm) excluding card edge fingers
Emi	FCC Part 15 LevelBand EN55022 LevelBImmunity: EN50082-1:1997
Listings	UL 1950, cUL per CSA C22.2 No. 950
Manufacturer	Echelon
Literature	Echelon PCLTA-20 PCI LonTalk Adapter datasheet models 74401 to 74405
Humidity	25 to 90 percent RH non-condensing at 50 C

74401PCLTA Specifications

PARAMETER	VALUE
Key Features	32 bit PCI LonTalk host interface
Neuron 3150 at 10 MHz with 58 KB SRAM	Integral twisted pair transceiver on 74401
Technical Specifications	Model: 74401

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to plus 70 C
Operating Temperature	0 C to plus 70 C
Humidity	25 to 90 percent RH non-condensing at 50 C
Nonoperating Temperature	minus 45 C to plus 85 C
Operating Humidity	25 to 90 percent RH non-condensing at 50 C
Nonoperating Humidity	95 percent RH at 50 C (12 hour)
Board Height	3.87 in (9.8 cm) excluding card edge fingers
Board Length	5.20 in (13.2 cm) excluding card edge fingers
Emi	FCC Part 15 LevelBand EN55022 LevelBImmunity: EN50082-1:1997
Listings	UL 1950, cUL per CSA C22.2 No. 950
Manufacturer	Echelon
Literature	Echelon PCLTA-20 PCI LonTalk Adapter datasheet models 74401 to 74405 Notes

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	74401
Adapter Family	PCLTA-20
Instrument Type	PCI LonTalk network adapter
Processor	Neuron 3150
Processor Clock	10 MHz
Memory	58 Kbytes SRAM
Bus Interface	32 bit PCI
Operating Input Voltage	plus 5 VDC plus or minus 5 percent
Operating Input Current Typical	300 mA (74401 through 74404)
Operating Input Current Maximum	1 A (74401 through 74404)
Network Connector	Weidmuller 2-conductor BLA (74401, 74402, 74403)
Indicator	Service LED
Operating Temperature	0 C to plus 70 C
Nonoperating Temperature	minus 45 C to plus 85 C
Operating Humidity	25 to 90 percent RH non-condensing at 50 C
Nonoperating Humidity	95 percent RH at 50 C (12 hour)
Board Height	3.87 in (9.8 cm) excluding card edge fingers
Board Length	5.20 in (13.2 cm) excluding card edge fingers
Emi	FCC Part 15 Level B and EN55022 Level B
Immunity	EN50082-1:1997
Listings	UL 1950, cUL per CSA C22.2 No. 950
Manufacturer	Echelon
Literature	Echelon PCLTA-20 PCI LonTalk Adapter datasheet models 74401 to 74405
Specifications	

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Board Length	5.20 in (13.2 cm) excluding card edge fingers
Emi	FCC Part 15 LevelBand EN55022 LevelBImmunity: EN50082-1:1997
Listings	UL 1950, cUL per CSA C22.2 No. 950
Manufacturer	Echelon
Literature	Echelon PCLTA-20 PCI LonTalk Adapter datasheet models 74401 to 74405

Notes

From Echelon PCLTA-20 datasheet Model 74401 column (queue title: Echelon PCLTA-20 PCI LonTalk Adapter). 74405 SMX current and length differ and are not this SKU.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.