≡XLON® PCI

Description

The ≡XLON®ₚcᵢ LonTalk® Adapter can be used to connect your PC to a LonWorks® network via the PCI bus, according to PCI specification Rev. 2.2. It is designed for use in industrial control, process control and building automation.

The ≡XLON®ₚcᵢ supports not only the LNS Network Services Interface (NSI) for all LNS tools, but also the LonManager®-API-interface on older applications.

Thanks to its Client-Server-Architecture, the LNS network operating system provides simultaneous access to highly diverse applications on the Network-Services-Server (NSS). As a result LonWorks® network tools produced by different manufacturers can be simultaneously implemented for installation, maintenance, monitoring and control.

By utilizing the ≡XLON®ₚcᵢ it is also possible, to transform a PC into an extremely efficient LonWorks® node. In this case, the LonWorks® application runs on the PC and the ≡XLON®ₚcᵢ handles the operation of the LonTalk® protocol. This provides much more processing power for a LonWorks® application, in comparison to a node based only on a Neuron® chip. In addition, the number of possible network variables has been considerably increased from 62 to 4096, which can frequently play an important role when it comes to maintenance and monitoring applications.

The ≡XLON®ₚcᵢ has an integrated FTT-10A transceiver for Free Topology and Link Power networks or a RS485 transceiver for Twisted Pair networks. Alternatively, an SMX version is available.

An external Service button and Service LED is for use with manual installations and for visualization of the state of the LonTalk® Adapter. An extra LED displays any bus traffic on the network. The downloadable firmware allows updates without accessing the hardware.

All available drivers are included in the ≡XLON®ₚcᵢ Kit. Sample programs for accessing the driver with C/C++ and VisualBasic can be downloaded from www.xlon.de.
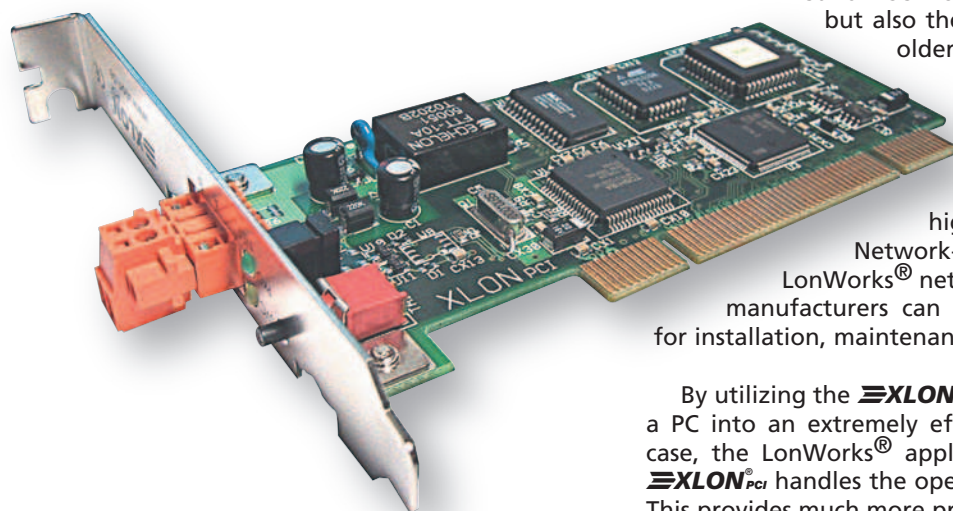
Features and Benefits

- LonTalk® Adapter for PCI bus

- Easy Plug & Play installation

- FTT-10A or RS485 transceiver, alternatively SMX version

- Supports LNS and LonManager® API

- Up to 127 LonTalk® Adapters per PC

- External Service button and LED

- Compact size (half height)

- Downloadable firmware

- Drivers for Windows 98/ME, Windows 2000/XP, Windows CE, Linux und QNX

Specifications

Bus Interface	32 bit PCI conform, in accordance with PCI specification Revision 2.2
Network Connection FTT-10A	2-conductor Weidmueller connector, type BL3.5/2FSNOR (Weidmueller ordering number: 160 664)
Network Connection RS485	3-conductor Weidmueller connector, type BL3.5/3FSNOR (Weidmueller ordering number: 160 665)
Power Supply Connection	Via the PCI bus
Service Pin Function	Controlled by host or Service button
Configuration State	Displayed on host and via Service LED
Network Transceiver	FTT-10A or RS485 (integrated), alternatively SMX version available
Network Topologies	Free Topology and Link Power with FTT-10A or Twisted Pair with RS485, with SMX version dependent on the transceiver used.
Power Supply Data	5VDC, ±5%, 80mA typical and 3.3VDC, ±5%, 40mA typical
Environment Conditions	Operating temperature 0°C to +70°C (+32°F to +158°F) Non-operating temperature -45°C to +85°C (-49°F to +185°F) Maximum humidity 90%@+50°C (90%@+122°F), non-condensing
EMI	EN55022 Level B, EN61000-4-2, EN61000-4-4, EN50140, EN50141
Listings	CE mark
Processor	Neuron 3150® Chip@10 MHz
Dimensions	127 x 55.7 mm (5" x 2.19") (length x width) 127 x 106.7 mm (5" x 4.2") (length x width) for SMX version
Weight	50g

Documentation

The User Guide is bilingual (English/German) and is included in the ≡XLON®ᴾᶜᴵ Kit.

Ordering Information

XLON® PCI	Article Number
with integrated FTT-10A	PCI1-WM-FTT
with integrated RS485	PCI1-WM-485
SMX version	PCI1-SMX