



Description

The **XLON[®] USB** LonTalk[®] Adapter can be used to connect your PC or Notebook to a LonWorks[®] network via the Universal Serial Bus. It is designed for use in industrial control, process control and building automation.

The **XLON[®] USB** 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[®] USB** it is also possible, to transform a PC or Notebook into an extremely efficient LonWorks[®] node. In this case, the LonWorks[®] application runs on the PC, and the **XLON[®] USB** 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[®] USB** has an integrated FTT-10A transceiver for Free Topology and Link Power networks or a RS485 transceiver for Twisted Pair networks.

The **XLON[®] USB** owns a Service LED and a State LED for visualization of the LonTalk[®] adapter's state. For use with manual installations an external Service Pin button is provided. The downloadable firmware allows updates without accessing the hardware.

All available drivers are included in the **XLON[®] USB** 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 USB
- Easy Hot Plug & Play installation
- FTT-10A transceiver LON[®]
- RS485 transceiver with 1.5 kV isolation voltage for LON[®]
- Supports LNS and LonManager[®] API
- Up to 127 LonTalk[®] Adapters per PC
- External Service button and LED
- Compact size
- Downloadable firmware
- Useable for wall or DIN-rail mounting
- Drivers for Windows98/ME, Windows 2000, Windows XP, Windows CE and Linux



Specifications

Bus Interface	USB conform, in accordance with Universal Serial Bus specification 1.1, 12 Mbit/s
Network connection FTT-10A	2-conductor Weidmueller connector, type BL3.5/2FSNOR (Weidmueller ordering number 160 664)
Network connection RS485	Western Modular connector 8-pole
Power Supply Connection	Via the USB
Service Pin Function	Controlled by host or Service button
Configuration State	Displayed on host as well as via Service and State LED
Network Transceiver	FTT-10A or RS485 (integrated)
Network Topologies	Free Topology and Link Power with FTT-10A or Twisted Pair with RS485
Power Supply Data	5VDC, $\pm 5\%$, 100mA 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	123 x 68 x 30 mm (4.84" x 2.68" x 1.18") (length x width x height)
Weight	100g

Documentation

The User Guide is bilingual (English/German) and is included in the **XLON[®] USB** Kit.

Ordering Information

XLON [®] USB	Article Number
with integrated FTT-10A	USB4-WM-FTT
with integrated RS485	USB4-RJ-485