

XLON[®] USB

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

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|----------------------------|---|
| 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

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