

WLX – WLAN Ethernet + Serial Adapter



mobile Datensysteme GmbH

Description:

The WLX is intended to connect devices with ethernet or serial interfaces to a Wireless Local Area Network (WLAN) corresponding to the 802.11 a/b/g/h standard. Typical application for the WLX is the wide range of industrial application such machine to machine communication or mobile environment, i.e. a forklift.

The WLX can also work as a printserver for printers with serial or USB interfaces.

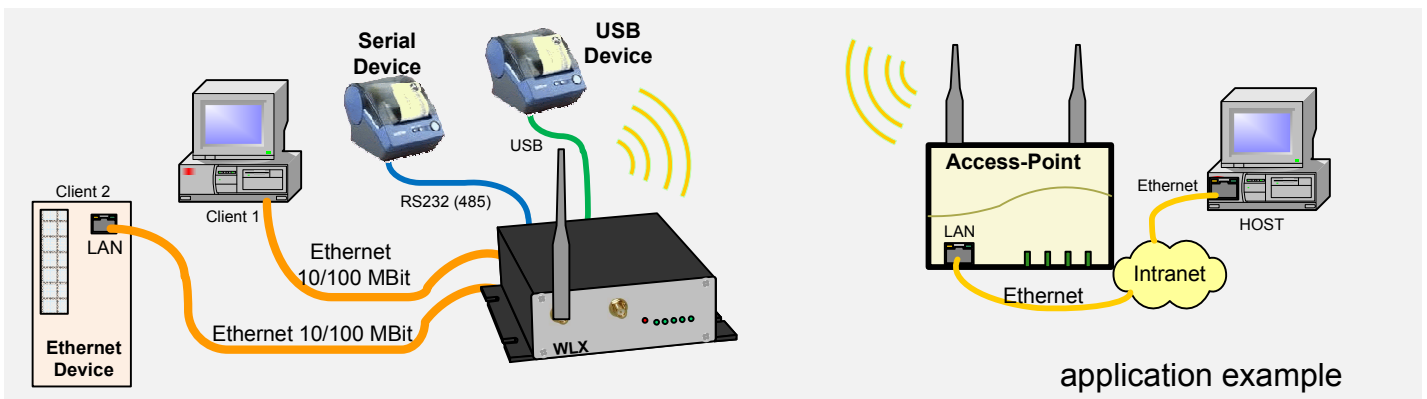
Security is guaranteed with encryption algorithms like WEP(64,128) and TKIP/AES. Authentication is implemented conforming to 802.11i (WPA+WPA2) or 802.1x (EAP-PEAP,TTLS,TLS,LEAP)

The supply voltage range of the WLX is 10-72VDC.

Configuration and monitoring of the WLX is performed with a web browser or a special Locator-, Config- and Monitor-Program.



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WLX Specifications:

Interfaces:

- WLAN: IEEE 802.11 a/b/g/h (2,4 + 5 GHz WLAN)
- Ethernet: 2 x LAN-Port 100/10 Mbit Auto MDIX (RJ45 or M12)
- Serial: 9pol. DSUB for RS232, RS422 or RS485
- IO: 1 x Relay (changeover) + 1 Input
- USB: USB Interface for Printer or USB-Memory (Debug)

Powersupply:

- UB: 10-72V DC (802.3af PoE via LAN-Port 1)
- Power demand: < 5 W

Antenna connectors:

- WLAN: 2 x RPSMA ((RP)TNC optional)

Housing:

- Material: Aluminium tubus
- Dimensions: 105 x 125 x 35 or 40 mm
- Mounting: 1) fixing strips
2) DIN clip
3) Housing with Rubber feets

Weight:

- Weight: ca. 400g
- Protection class: IP40 (till IP54 possible)
- Temperature range: 0-60°C

Configuration:

- WEB: WEB-Interface (english)
- UCP-Config: special program for localization, configuration and status monitoring

Security:

- Encryption: WEP64/128 + TKIP/AES
- Authentication: 802.11i WPA/WPA2
802.1x incl. certificate management
(EAP-PEAP, TLS, TTLS, LEAP)

WLAN Interface:

- Datarates
 - 802.11b 11, 5,5, 2 1 MBit/s
 - 802.11g 54, 48, 36, 24, 18, 12, 9, 6 MBit/s
 - 802.11a 54, 48, 36, 24, 18, 12, 9, 6 MBit/s
- Frequency Range
 - 802.11 b/g: 2,412 ~ 2,472 GHz
 - 802.11a: 4,9 ~ 5,825 GHz
- Channels
 - 802.11b/g ETSI: 1-13 (3 non overlapping)
 - 802.11a: ETSI: 19 non overlapping
- Transmit power
 - 802.11b/g 18dBm peak
 - 802.11a: 18 or 17dBm