

MC2

802.11a/b/g/n WLAN Ethernet & Serial Adapter

Description:

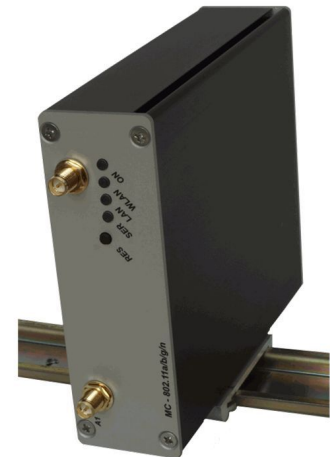
The MC2 provides network connections between devices equipped with Ethernet ports or serial interfaces and wireless LAN networks. The typical usage area for the MC2 is the broad field of industrial WLAN applications in machine-to-machine communication. This includes mobile installations such as forklifts or AGV's.



MC2-SL



MC2-SL-M12



MC2-SC

Properties:

Hardware:

- Processor board with ARM® Cortex®-A9 Core
- Memory: 128MByte DDR-RAM and 4GB Flash
- 802.11a/b/g/n for 2.4 + 5 GHz WLAN, Data rate up to 300 MBit/s
- 2 x Gigabit LAN interface
- 1 x RS232 or RS485 or RS422 serial interface
- 1 x USB2 Port also for interface extensions
- 1 x relay switch
- 1 x aux input
- Power supply 10-72V or 802.3af PoE via LAN Port 1
- Robust aluminum housing with various mounting options
- Wide mechanical and functional compatibility to the earlier **modas** WLAN client adapter WLX + ESCG.

Functions:

- Configuration via the website or by using the MC-Config program.
- Different bridge modes to connect the LAN clients.
 - NAT
 - Single Client NAT
 - Single Client Cloning
 - Level 2 Bridge
 - MWLC Mode
- Certificate management for authentication via 802.1x
- SCEP (Simple Certificate Enrollment Protocol)
- Fast-Roaming 802.11r
- Serial-Client via TCP or UDP

Device Options:

Mounting:

- 1) side mounting brackets (MC2-SL...)
- 2) DIN rail mounting clip (MC2-SC...)

Power supply connection:

- 1) 5 pol. M12 connector (incl Relay) (MC2-Sx-M12)
- 2) 8pol terminal block (Weidmüller) (incl. Relay + Aux. input)
- 3) 3pol M8 connector (Power supply) (MC2-Sx-M8)

Antenna connector:

- 1) 2 x RP-SMA (standard)
- 2) 1 or 2 TNC or RPTNC

Serial Interface:

- 1) 1 x RS232 (Standard)
- 2) 1 x RS485 (RS422)

Technical data:

| | |
|------------------------------------|--|
| Specification: | |
| <i>Ethernet</i> | 2 x 10/100/1000 MBit Auto MDI/MDIX |
| <i>Serial</i> | 1 x RS232, 300-460,8 KBit/s, RTS, CTS, DSR, DTR or RS485 |
| <i>USB</i> | 1 x USB 2.0 to connect printers or USB adapter with various other interfaces |
| <i>Relay</i> | 1 x change-over switch max 1A@24V, max 125VAC |
| <i>AUX-Input</i> | 1 x galv. isolated 10 – 72V |
| <i>Antenna connectors</i> | 2 x RPSMA (optional TNC or RPTNC) |
| <i>Power supply</i> | 10 – 72VDC or 802.3af PoE via the LAN Port |
| <i>Energy consumption</i> | <= 5W (3W typical) |
| <i>Operating temperature range</i> | 0-60° |
| <i>Dimensions</i> | 105x125x35mm |
| <i>Weight</i> | ca. 400g |

| | | |
|------------------------|---|---|
| WLAN-Interface: | | |
| <i>Technologies</i> | 802.11 a/b/g/n WLAN (2.4 + 5 GHz Band) | |
| <i>Antennas:</i> | 2 Antennas (2T2R MIMO) up to 300 Mbit /s | |
| <i>Encoding</i> | WEP (64,128bit) + TKIP/AES | |
| <i>Security</i> | 802.11i WPA(2) – PSK 802.1x EAP-PEAP, -TLS, -TTLS, -LEAP | |
| <i>Channels</i> | 802.11b/g/n ETSI 1-13, USA/Canada 1-11 802.11a/n ETSI 19, USA/Canada 25 (U-NII-1 + UNII-2A + U-NII-2C+U-NII-3) | |
| <i>Data rates</i> | <i>Mode</i> | <i>Data rate</i> |
| | 802.11b: | 1, 2, 5.5, 11Mbps |
| | 802.11g / a | 6, 9, 12, 18, 24, 36, 48, 54Mbps |
| | 802.11n (20MHz) | 1Nss: max. 72.2Mbps 2Nss: max. 144.4Mbps |
| | 802.11n (40MHz) | 1Nss: max. 150Mbps 2Nss: max. 300Mbps |
| <i>Transmit power</i> | 802.11b/g 17 dBm | 802.11a 15 dBm |
| | 802.11gn 16 dBm | 802.11an 15 dBm |

Order codes:

| | Option | Order code |
|--------------------------------|-----------------------------------|---------------------------|
| Housing | | |
| | Housing with mounting brackets | MC2-SL.... |
| | Housing with DIN-rail-clip | MC2-SC.... |
| | | |
| Power supply connection | | |
| | M12 connector | MC2-Sx-M12 |
| | 8pol. Weidmüller terminal block | MC2-Sx-WK8 |
| | M8 connector | MC2-Sx-M8 |
| | | |
| IO-Option | | |
| | Relay (included in M12 + WK8) | |
| | Aux-Input (included in WK8) | MC2-Sx-M12-INP |
| | | |
| Serial | Standard: 1 x RS232 | |
| | 1 x RS422 | MC2-Sx-xx-RS422 |
| | 1 x RS485 | MC2-Sx-xx--RS485 |
| | | |
| Antenna Options | Standard: 2 x RPSMA | |
| | 1 or 2 TNC Antenna connector(s) | MC2-Sx-xx-1(2)TNC |
| | 1 or 2 RPTNC Antenna connector(s) | MC2-Sx-xx-1(2)RTNC |