

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.

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 10-60V or 802.3af PoE via LAN Port 1
- Robust aluminum housing with various mounting options

Functions:

Configuration and Firmware upgrade via the website, REST-API 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

WEP, 802.11i WPA-WPA2-WPA3-AES-TKIP-PSK

WPA Enterprise 802.1x PEAP LEAP TLS TTLS

Certificate management for authentication via 802.1x

SCEP (Simple Certificate Enrollment Protocol)

802.11r Fast-Roaming

802.11k Radio Resource Management

802.11e Wi-Fi Multimedia Quality of Service (WMM QoS)

Serial-Client via TCP or UDP

Device Options:

<p>Mounting:</p> <ol style="list-style-type: none"> 1) side mounting brackets (MC2-SL...) 2) DIN rail mounting clip (MC2-SC...) <p>Power supply connection:</p> <ol style="list-style-type: none"> 1) 5 pol. M12 connector (incl Relay) (MC2-Sx-M12) 2) 8pol terminal block (Weidmüller) (incl. Relay + Aux. input) MC2-Sx-WK8 3) 3pol M8 connector (MC2-Sx-M8) 4) DC-Jack for Plugs with 5 x 2,1mm diameter (M2-Sx-J) 	<p>Antenna connector:</p> <ol style="list-style-type: none"> 1) 2 x RP-SMA (Standard) 2) 1 or 2 TNC or RPTNC <p>Serial Interface:</p> <ol style="list-style-type: none"> 1) 1 x RS232 (Standard) 2) 1 x RS485 (RS422)
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MC2-SL



MC2-SL-M12



MC2-xx-WK8



MC2-SL-M8



MC2-SL-J



MC2-SC

Technical data:

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

WLAN-Interface:		
Technologies	802.11 a/b/g/n WLAN (2.4 + 5 GHz Band)	
Antennas:	2 Antennas (2T2R MIMO) up to 300 Mbit /s	
Encoding	WEP (64,128bit) + TKIP/AES	
Security	802.11i WPA(2+3) – PSK 802.1x EAP-PEAP, -TLS, -TTLS, -LEAP	
Channels	802.11b/g/n ETSI 1-13, USA/Canada 1-11 802.11a/n ETSI 19, USA/Canada (U-NII-1 + UNII-2A + U-NII-2C+U-NII-3)	
Data rates	Mode	Data rate
	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
Transmit power	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
	DC-Jack	MC2-Sx-J
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