MC1

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

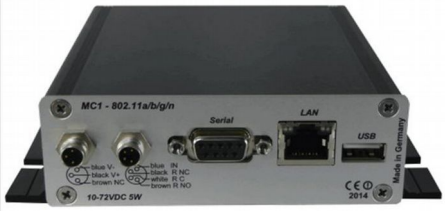
Description:

The MC1 provides network connections between devices equipped with Ethernet ports or serial interfaces and wireless LAN networks. The typical usage area for the MC1 is the broad field of industrial WLAN applications in machine-to-machine communication. This includes mobile installations such as forklifts or AGV's.

MC1-SL

MC1-SL-M12

MC1-SL-WK8



MC1-SL-M8

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
Gigabit LAN interface
RS232 or RS485 or RS422 serial interface
USB2 Port also to interface extension
1 x relay switch
1 x aux input
Power supply 10-72V or over PoE (LAN)
Robust aluminum housing with various mounting options
Largely mechanical and functional compatibility to the earlier models 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 (transparent tunnel mode)

Certificate management for authentication via 802.1x
SCEP (Simple Certificate Enrollment Protocol)
Fast-Roaming 802.11r
Serial-Client via TCP or UDP

MC1-SC

Device Options:

Mounting:
1) side mounting brackets
2) DIN rail mounting clip

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

Power supply connection:
1) 5 pol. M12 connector
2) 8pol terminal block
3) 3pol M8 connector

Serial Interface:
1) 1 x RS232 (Standard)
2) 1 x RS485 (RS422)

Technical data:

Specification:	
Ethernet	*1 x 10/100/1000 MBit Auto MDI/MDIX*
Serial	*1 x RS232, 300-460,8 KBit/s, RTS, CTS, DSR, DTR or RS485 (RS422)*
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 – 72VDC 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)*	
Encoding	*WEP (64,128bit) + TKIP/AES*	
Security	*802.11i WPA(2) – 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 12*	
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* *802.11gn 16 dBm*	*802.11a 15 dBm* *802.11an 15 dBm*

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Order codes:

	Option	Order code
Housing		
	Housing with mounting brackets	**MC1-SL....**
	Housing with DIN-rail-clip	**MC1-SC....**
Power supply connection		
	M12 connector	**MC1-Sx-M12**
	8pol. Weidmüller terminal block	**MC1-Sx-WK8**
	M8 connector	**MC1-Sx-M8**
IO-Option		
	Relay	**MC1-Sx-xx-REL**
	Aux-Input	**MC1-Sx-xx-INP**
Serial	Standard: 1 x RS232	
	1 x RS422	**MC1-Sx-xx-RS422**
	1 x RS485	**MC1-Sx-xx--RS485**
Antenna Options	Standard: 2 x RPSMA	
	1 or 2 TNC Antenna connector(s)	**MC1-Sx-xx-1(2)TNC**
	1 or 2 RPTNC Antenna connector(s)	**MC1-Sx-xx-1(2)RTNC**

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