

# MC6C

## 802.11a/b/g/n WLAN Ethernet Client Adapter

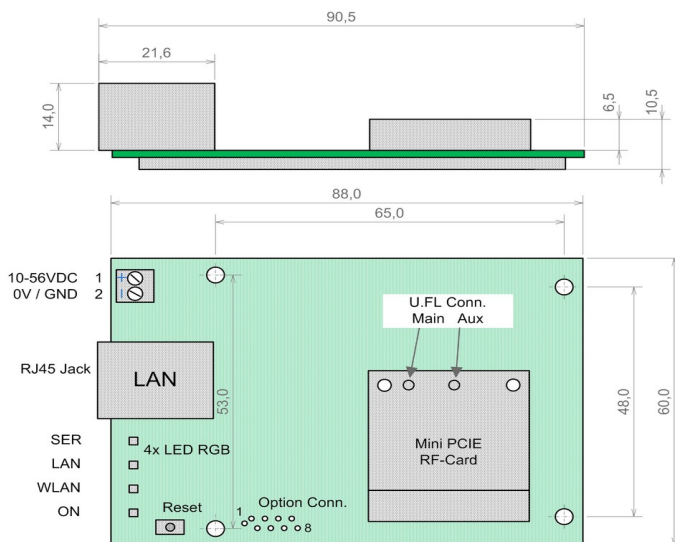
### Description:

The MC6C connects devices with Ethernet-Ports to Wireless LAN Networks. The most common application area for the MC6C is the broad area of industrial WLAN appliances of machine-to-machine communication. This includes mobile setups such as forklift trucks and driverless transport systems. The MC6C is offered as an integrateable module, so that customers can enhance their devices and machines with a Wireless LAN Interface.

### Device 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
- 1 x Gigabit LAN Port
- Power Supply 10-48V or 5V (+- 10%) 5W max. 3W typ.

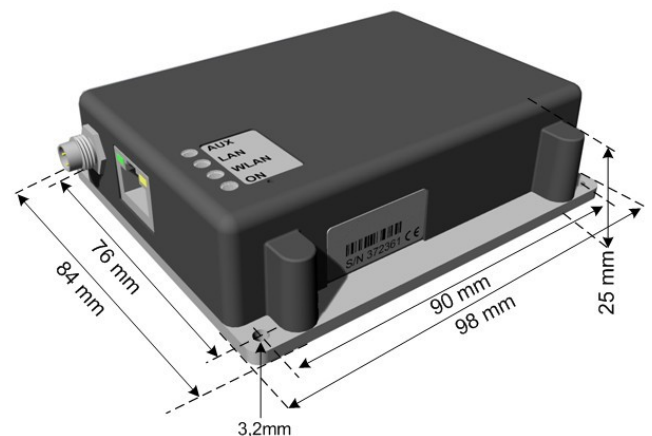


### Optional Interfaces:

- RS232 or TTL Serial Port (only Rx Tx)
- USB 2.0 Port
- Relay with changeover switch
- CAN-Bus interface

### Features:

- Configuration and Firmware upgrade via the website, REST-API or by using the MC-Config program.
- Different Bridge-Modes for LAN-Client-Connection:
  - 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, 802.11e



Also available in a housing (no serial, no USB, internal Antenna)

## Technical specifications:

Specifications:	
Ethernet	1 x 10/100/1000 MBit Auto MDI/MDIX
Serial (optional)	RS232, 300-460,8 KBit/s, TxD RxD
USB (optional)	1 x USB 2.0
Antenna Connectors	2 x U.FL
Power Supply	10-48V DC, connection via 2pin screw terminal (optional 5V)
Energy	<= 5W (typically 3W)
Temperature	0-70°C
Dimensions	60 x 88 mm, max. 17mm in height
Weight	ca. 40g

Wireless LAN Interface:		
Technology	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+3) – PSK 802.1x EAP-PEAP, -TLS, -TTLS, -LEAP	
Roaming	Fast roaming 802.11r	
Channels	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)	
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
Transmission Power	802.11b/g 17 dBm	802.11a 15 dBm
	802.11gn 16 dBm	802.11an 15 dBm

Order codes:		
	Option	Code
Standard		MC6C
Supply voltage	5V +- 10%	MC6C-...5V-
Antenna cable	with RPSMA Pigtail 10cm	MC6C-...-1RSMA
Serial Interface	RS232 via Micro Match socket	MC6C-RS232-....
	TTL level via Micro Match socket	MC6C-SER-....
CAN-Bus	via Micro Match socket	MC6C-CAN-.....
USB	USB Type A connector	MC6C-USB-....
Relay	Relay changeover switch	MC6C-REL-....

