

MC6C-G1

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.

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

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
- LAN Client Cloning
- Level 2 Bridge
- MWLC Mode

Certificate Management for 801.1x authentication

Supported WLAN standards:

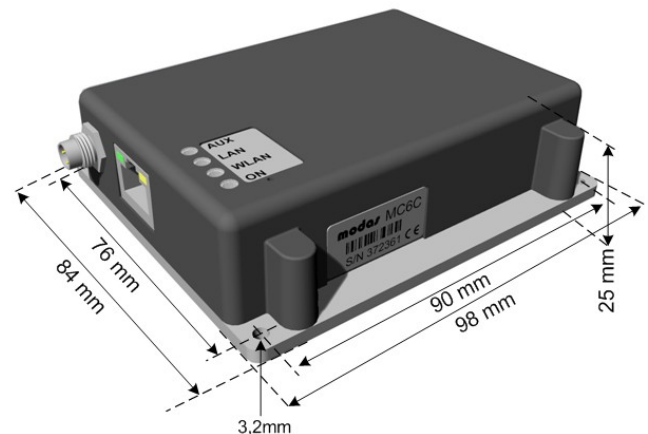
802.11a/b/g/n 2.4 + 5GHz WLAN up to 300MBit / sec
802.11i WPA(2,3) PSK TKIP + CCMP / AES / Enterprise
802.11r Fast BSS Transition (FT)
802.11d Global Harmonization
802.11k Radio Resource Management
802.11e Multimedia Quality of Service (WMM QoS)

Supported protocols:

TCP, UDP, ICMP, HTTP, HTTPS, IPV4, IPV6

Supported authentication:

802.1x (EAP-TLS, EAP-TTLS, EAP-PEAP, LEAP, MSCHAPV2)



MC6C with M8 power connector and internal antennas

Technical specifications:

Specifications:	
<i>Ethernet</i>	1 x 10/100/1000 MBit Auto MDI/MDIX
<i>internal Antennas</i>	2 x 2.4 + 5 GHz PCB Antennas
<i>Power Supply</i>	10-48V DC, connection via M8 connector
<i>Energy</i>	<= 5W (typically 3W)
<i>Temperature</i>	0-60°C
<i>Dimensions</i>	98x84x25mm
<i>Weight</i>	ca. 160g
<i>Order code</i>	MC6C-G1-M8-2PCB

Wireless LAN Interface:		
<i>Technology</i>	802.11 a/b/g/n WLAN (2.4 + 5 GHz band)	
<i>Antennas</i>	2 Antennas (2T2R MIMO)	
<i>Encryption</i>	WEP (64,128bit) + TKIP/AES	
<i>Security</i>	802.11i WPA - WPA2 - TKIP -- AES – PSK 802.1x EAP-PEAP, -TLS, -TTLS, -LEAP	
<i>Roaming</i>	802.11r Fast BSS Transition (FT)	
<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>Transmission Power</i>	802.11b/g 17 dBm 802.11gn 16 dBm	802.11a 15 dBm 802.11an 15 dBm