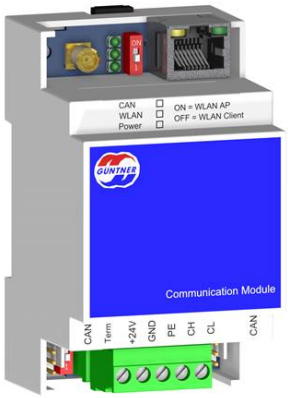
Data sheet GCM (W)LAN Rail.1



ERP no.: 5206123

www.guentner.de

Contents

1 GCM (W)LAN Rail.1

1.1 Functional description

The **GCM (W)LAN Rail.1** module is used to connect the Güntner control units of the GMM and GHM series to a WLAN and LAN network. Depending on the selected mode of operation, you can read out individual parameters from the control unit via the communication module or modify parameters from outside.

There is an app available for mobile devices (smartphone/tablet with Android or IOS operating system) that can be used to read and modify the parameters and operating status of the GMM. This app can be downloaded from the appropriate app store.

The parameters can also be displayed and modified via the integrated web interface.

The module has an antenna connector for an external antenna (not supplied), so it can also be used in switch cabinets made of conductive material. The external antenna is essential for use in a WLAN.

1.2 Connections

Connections for GCM (W)LAN Rail.1

Label	Description
Upper row of connections	
	RP-SMA plug for an external antenna
	Ethernet customer interface
Lower row of connections	
CAN	Connector for the ribbon cable of the CAN interface. When this interface is used it also serves as a power supply
+24V	Supply voltage 24V
GND	Ground potential of the supply voltage
PE	Connection to potential equaliser (PE) **Always absolutely essential!**
CH	CAN high signal of the CAN interface
CL	CAN low signal of the CAN interface
CAN	Connector for the ribbon cable of the CAN interface. When this interface is used it also serves as a power supply

1.3 LEDs

LED name	LED state	Description
All LEDs	on	Boot sequence
CAN active	off	No telegrams are being received from the CAN bus
	flashing	Telegrams are being received from the CAN bus
WLAN active	off	No active connection
	on	WLAN active in client mode
	flashing	WLAN active in access point mode
Power	off	No supply voltage
	on	Supply voltage is connected
Ethernet green	on	Ethernet connection is present
	flashing	Data packets are being exchanged via Ethernet
Ethernet orange	on	When the speed is 100 Mbit

1.4 Slide switch

Position	State	Description
Upper row of connections	off	Module operates as WLAN client
	on	Module operates as WLAN access point
Lower row of connections (termination)	off	CAN termination on the Güntner bus is switched off (the module is in the middle of the bus cabling).
	on	CAN termination on the Güntner bus is 120Ω (the module is at the beginning or end of the bus cabling).

1.5 Electrical properties

	Min	Type	Max	Unit
Power supply	20	24	28	V
Current consumption	0.110	0.125	0.145	A
Power loss	2.9	3.0	3.1	W
WLAN				
Standards	IEEE 802.11a/b/g/n			
Safety	WPA2			
Frequency range	2.4GHz			
Transmission rate	6.5 to 72.2 Mbit/s			
Antenna	external			
Range as built in	5	20	100	m
SSID	GUENTNER <serial number> (uses the last five digits of the serial number)			
Channel	1-11			
Network key	guentnerpwd (standard)			
Mode	Access point/client			
Default IP address:	192.168.0.1			
DHCP server address range:	192.168.0.1 – 192.168.0.24			
LAN				
Transmission rate	10	100	100	Mbit/s
Default IP address:	192.168.1.1			
Login Web-Server				
User	admin (standard)			
Password	guentnerpwd (standard)			
CAN bus				
Dielectric strength	-24		24	V
Transmission rate		125		kbit/s
Connection resistance (CAN termination = ON)	open	120	–	Ω

1.6 External antenna

Connection	RP-SMA
Frequency range	2.4 GHz ISM band
Maximum antenna gain	1.22 dBi

This W-LAN module is permitted in combination with the W-LAN antenna: ERP no.: 5206338, GCM (W)LAN antenna, manufacturer's item no.: ANT-2.4-WRT-MON-RPS.

1.7 Installation / Operating conditions

• The module is intended for installation in a casing/switch cabinet. Installation must only be performed by personnel with appropriate professional training.

• Temperature in operation: -20°C ~ +55°C

• Temperature for storage and transport -20°C ....+70°C, dry

• The unit complies with the EMC standards:
EN 61000-6-2 (Immunity for industrial environments)
EN 61000-6-3 (Noise emission for residential use)
IEC 61000-4-4/-5/-6/-11
FCC Part 15 Subpart 15
ETSI EN 300 328 v1.8.1

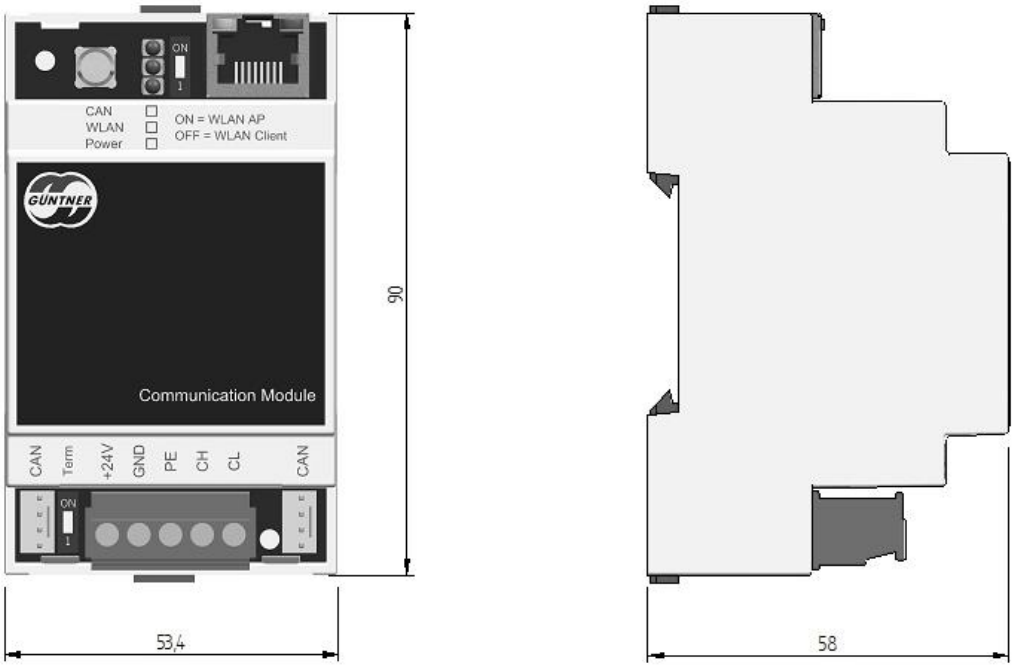
1.8 Scope of delivery

• GCM (W)LAN Rail.1 module

• Data sheet

1.9 Dimensions and weight

GCM (W)LAN Rail.1



All values in mm

Weight:
approx. 115g