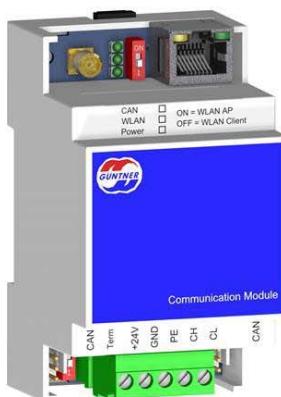


# User Manual GW1001A



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Artikel-Nr.: GN1001A

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*[www.aed-engineering.com](http://www.aed-engineering.com)*

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## 1      GW1001A

### 1.1    Functional Description

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The GW1001A serves as connector between controllers of the GMM and GHM series and a WLAN or LAN. The communication module allows to read and edit the controller's parameters

Through an app (application), which is available for mobile devices (Smartphone/Tablet with Android operating systems and iOS), the GMM's parameters and operating modes can be read and edited. The app can be downloaded from the corresponding App-Store.

There is also an integrated web interface through which parameters can be displayed and edited

The module comes with a connector for an external antenna (not included in the delivery scope) and therefore can also be used in electric cabinets made of conductive material. The external antenna is obligatory for operation with WiFi.

## 1.2 Connectors



Connectors GW1001A

Labeling	Description
Upper connector block	
	RP-SMA connector for external antenna
	Ethernet customer interface
Lower connector block	
CAN	Connector for flat ribbon cable of the CAN interface. If used this interface serves as the power supply.
+24V	Power supply 24V
GND	Ground Potential of the power supply
PE	Connection to potential equalization (PE) always absolutely necessary
CH	CAN High Signal of the CAN-Interface
CL	CAN Low Signal of the CAN-Interface
CAN	Connector for flat ribbon cable of the CAN interface. If used this interface serves as the power supply.

## 1.3 LEDs

LED Name	LED mode	description
All LEDs	on	booting process
	off	No signals from CAN bus
	on	Signals from CAN bus
CAN active	off	No active connection
	on	WLAN in client mode active
	flashing	WLAN in access point mode active
Power	off	Power supply off
	on	Power supply on
Ethernet green	on	Existing ethernet connection
	flashing	Ethernet signals sent
Ethernet orange	on	speed at 100 MB

## 1.4 Sliding switch

Number	Mode	Description
1	OFF	Module working as WLAN Client
	ON	Module working as WLAN Access-Point
2	OFF	No function (Reserve)
	ON	No function (Reserve)

## 1.5 Electrical Features

	Min	Typ	Max	Unit
Power supply	20	24	28	V
Current consumption	0,145	0,125	0,110	A
Power dissipation	2,9	3,0	3,1	W
<b>WLAN</b>				
Standards	IEEE 802.11a/b/g/n			
Security	WPA2			
Frequency	2.4GHz			
Transmission rate	6,5 to 72,2 Mbit/s			
Antenna	externa			
Range when built-in	5	20	100	m
<b>SSID</b>				
GUENTNER-<serial number> (the last five number of the serial number are used)				
Channel	1-11			
Mode	Access Point/Client			
Encryption	WPA2			
<b>LAN</b>				
Transmission rate	10	100	100	Mbit/s
Default Web Address:	192.168.0.1			
DHCP-Server Address range	192.168.0.1 - 192.168.0.24			
<b>CAN Bus</b>				
Dielectric strength	-24		24	
Transmission rate		125		kbit/s
Terminal resistance	Open	-	120	Ohm

## 1.6 External Antenna

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Connector:	RP-SMA
Frequency	2.4 GHz ISM Band
Max. Antenna amplification	1.22 dBi

This Wi-Fi module is licensed in combination with the Wi-Fi Antenna: ERP-Nr: 5206338, GCM (W)LAN-Antenne, Manufacturer Art. Nr.: ANT-2.4-WRT-MON-RPS.

## 1.7 Requirements for installation and operation

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- The module is meant to be built into a casing/electric cabinet. The mounting is only to be undertaken by a technically appropriate person.
- The 24 V electricity source should be restricted to 2A during mounting.
- Temperature operation: 20°C ~ +70°C
- Temperature storage and transport 0°C ~ +50°C, dry
- The device fulfills the EMV norms:  
EN 61000-6-2 (Interference stability for industrial use)  
EN 61000-6-3 (electromagnetic interference for living areas) IEC 61000-4-4/-5/-6/-11  
FCC Part 15 Subpart 15  
ETSI EN 300 328 v1.8.1

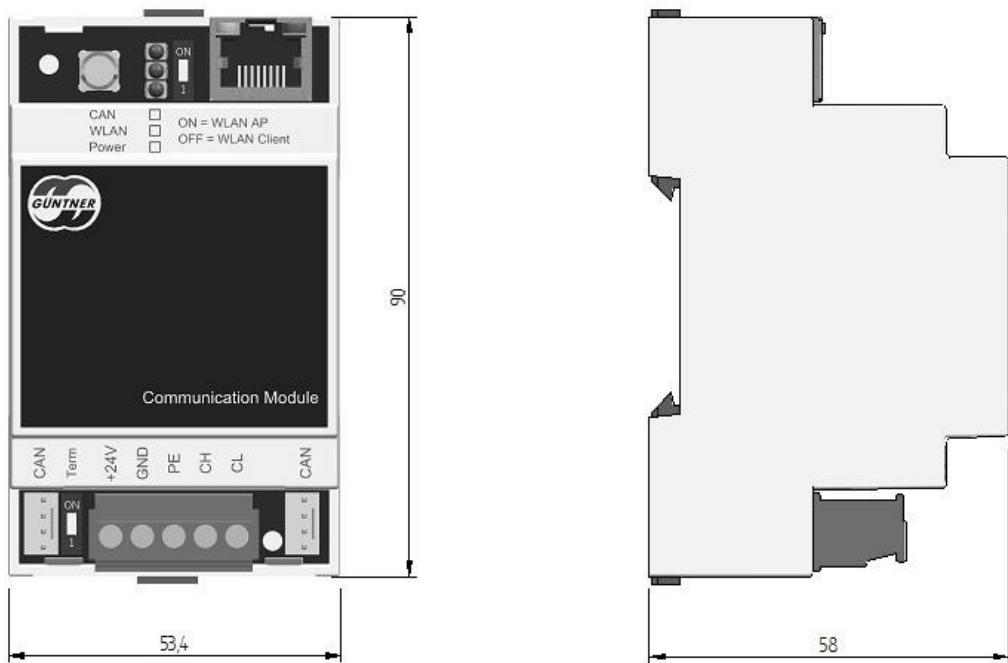
## 1.8 Delivery scope

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- GW1001-Rail
- Data sheet
- Access Information for Wi-Fi

## 1.9 Measurements/Weight

GW1001-Rail



All indications in mm

**Weight:**

ca. 115g

## 2.0 Federal Communication Commission (FCC) Interference Statement

FCC ID: 2AELE-GN1001A

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two Conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## 2.1 Industry Canada Statement

IC: 20129-GN1001A

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.