Data Sheet

Front

HG G-76344ZA LTE   HG G-76344XA LTE-P   HG G-76344ZA LTE-5G

Data Radio

Back (all variants)

Description

Application example

The radio modem HG G-76344-A LTE connects devices via Ethernet, USB or serial port to wireless networks. The connection can be made locally via WLAN or remotely via LTE/5G.

Via a serial interface, the radio modem can receive and forward data that is sent or received by a communication partner connected to the network. The USB port enables the connection of extensions such as additional serial interfaces or I/O interfaces.

The typical field of application for the radio modem is machine-to-machine communication, it is very suitable for mobile vehicles such as forklifts and AGVs.

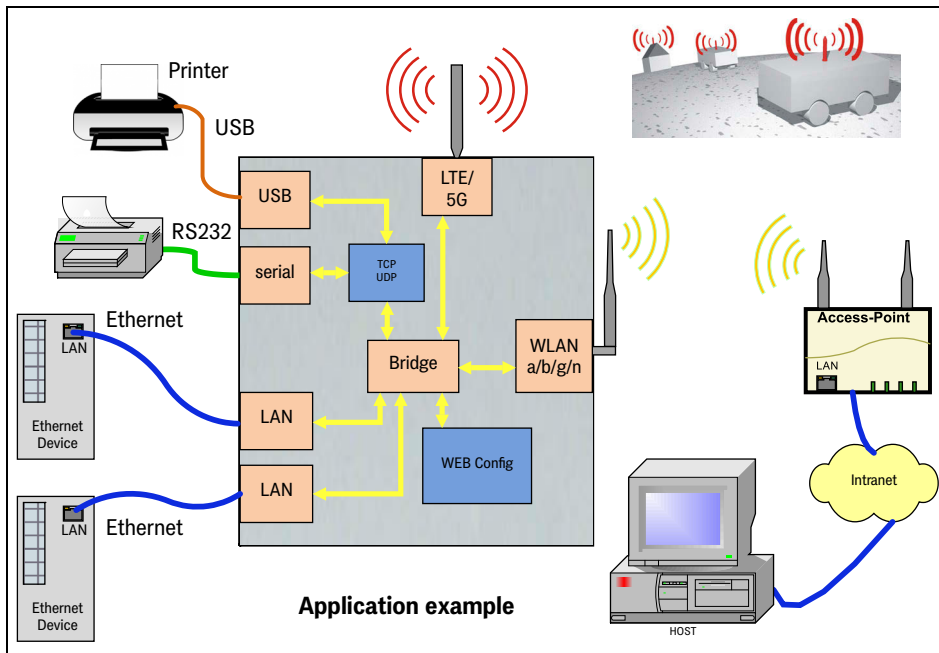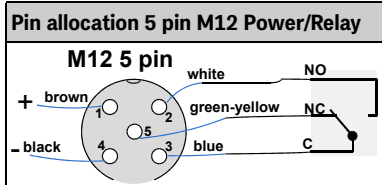## Main Features (all Variants)

- WLAN client for 802.11a/b/g/n via 2.4 + 5 GHz WLAN, data rate up to 300 MBit/s
- Integrated OpenVPN client
- Different Bridge modes for connecting the LAN clients: NAT / Single Client NAT / Single Client Cloning / Level 2 Bridge / MWLC Mode (transparent tunnel mode)
- WEP, 802.11i WPA-WPA2-WPA3-AES-TKIP-PSK
- WPA Enterprise 802.1x PEAP LEAP TLS TTLS
- Certificate management for the authentication via 802.1x
- SCEP (Simple Certificate Enrollment Protocol)
- Fast-Roaming 802.11r
- 2x RPSMA WLAN antenna connectors for diversity,
- 2x Gigabit LAN interfaces
- 1x serial interface: RS232, RS485 or RS422, Serial-Client via TCP/UDP
- 1x USB 2.0 interface, also for additional interfaces
- 1x switching relay controllable via network (e.g. to wake up vehicles from sleep mode)
- Voltage supply 10-60V or via PoE (LAN)
- Robust aluminum housing with various mounting options and screwable connectors
- Configuration via the internal web server, REST-API or with the help of the dedicated MC-Config program

Mobile radio interface (depending on variant*)

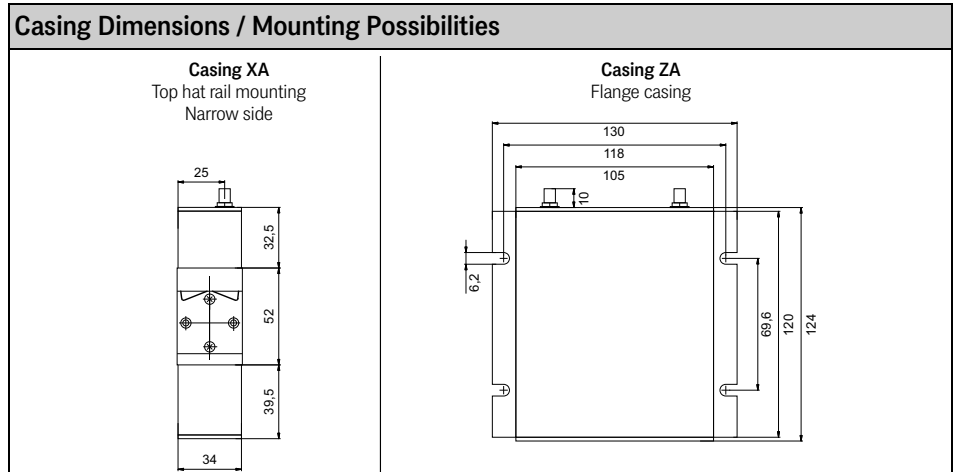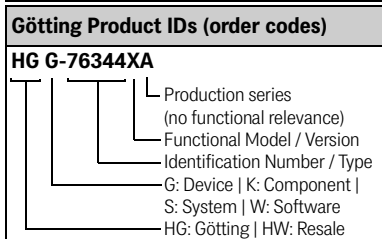| Type	Specifications
LTE	– Public LTE, 3GPP Release 11 – Cat 4, up to 150 Mbps downlink and 50 Mbps uplink – 1x antenna SMA – Connects to 2G, 3G or 4G networks worldwide
LTE-P	All the features of LTE, plus: – Private LTE, non public network, e.g. band 43 – 2x antenna SMA, thereof optionally 1x GNSS
LTE-5G	All the features of LTE-P, plus: – 3GPP Release 15 NSA/SA operation, Sub-6 GHz – 3x antenna SMA, thereof optionally 1x GNSS – Cat 16 downlink, up to 2,5 Gbps – Cat 18 uplink, up to 900 Mbps – Connects to 5G networks worldwide
*) see table variants on the back	

GÖTTING

Variants of the Radio Modem

Type		Specifications
HG G-76344...	XA LTE	Top hat rail mounting narrow side, public LTE
	XA LTE-P	Top hat rail mounting narrow side, private LTE
	XA LTE-5G	Top hat rail mounting narrow side, 5G
	ZA LTE	Flange casing, public LTE
	ZA LTE-P	Flange casing, private LTE
	ZA LTE-5G	Flange casing, 5G

Pin allocation 5 pin M12 Power/Relay

M12 5 pin

+ brown
− black
white — NO
green-yellow — NC
blue — C

Pin allocation 9 pin Sub-D Serial

Pin	RS232 Funct.	IN/OUT	RS485/422 Funct.	IN/OUT
1	DCD	IN	NC	
2	TxD	OUT	Tx+	OUT
3	RxD	IN	Rx-	IN
4	DSR	IN	NC	
5	GND		GND	
6	DTR	OUT	NC	
7	CTS	IN	Rx+	IN
8	RTS	OUT	Tx-	OUT
9	RI	IN	NC	

Götting Product IDs (order codes)

HG G-76344XA

Production series
(no functional relevance)
Functional Model / Version
Identification Number / Type
G: Device | K: Component |
S: System | W: Software
HG: Götting | HW: Resale

Casing Dimensions / Mounting Possibilities

Casing XA
Top hat rail mounting
Narrow side

Casing ZA
Flange casing

Technical Data

Casing	Standard dimensions: 125 x 105 x 35 mm / Weight: approx. 500 g
Env. conditions	Temperature range 0 - 60° C, protection class IP 20
Voltage supply	10 to 60 V DC via 5 pin M12 connector (screwable) or PoE (802.3af) via LAN-Port
SIM	1 x Standard/Mini-SIM slot
Ethernet	2x LAN-Port 10/100/1000 MBit Auto MDI/MDIX (RJ45)
Serial	1x RS232 9-pol. Sub-D socket, 300 Baud - 460,8 kBit/s, RTS, CTS, DSR, DTR or RS485/RS422
USB	1x USB 2.0 for firmware updates / for logging system messages onto USB storage media / for USB adapters with additional interfaces
Relay	1x change-over contact max. 1A@24V, max. 125VAC
AUX input	Optional: 1 x galvanically isolated 10 – 60 V
LEDs	5 LEDs: ON (Power)	LTE	WL-L (wireless)	LAN	SER (Serial)
WLAN Interface	
Technology	802.11 a/b/g/n WLAN (2,4 GHz + 5 GHz), conform to EN 300 328 V2.2.2
Antennas	2x antenna (2T2R MIMO) RP-SMA antenna connectors (optionally TNC or RP-TNC)
Encryption	WEP (64/128 Bit) + TKIP/AES
Security	802.11i WPA(2 + 3) - PSK 802.1x EAP-PEAP, -TLS, -TTLS, -LEAP
Fast roaming	802.11r + 802.11k
LTE Interface	
Technology	LTE Cat 4, 3GPP Release 11
Speed	Downlink: up to 150 Mbps / Uplink: up to 50 Mbps
Antennas	1x SMA (LTE) / 2x SMA (LTE-P), thereof optionally 1x GNSS
GNSS	GPS, GLONASS, BeiDou, Galileo, QZSS
Certificates	Carrier: Vodafone/Deutsche Telekom/SKT/Telefónica Regulatory: GCF/CE/KC/NCC/RCM/FAC/NBTC/ICASA Others: WHQL
5G	
Technology	5G NR, 3GPP Release 15 NSA/SA operation, Sub-6 GHz
Speed	Downlink CAT 16: up to 2,5 Gbps / Uplink Cat 18: up to 900 Mbps
Antennas	3x SMA, thereof optionally 1x GNSS
GNSS	GPS, GLONASS, BeiDou (Compass), Galileo
Certificates	Regulatory: GCF/CE/SRRC/CCC/NAL/KC/RCM Others: RoHS/WHQL