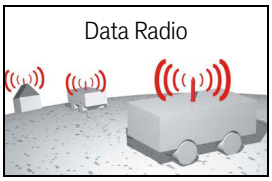
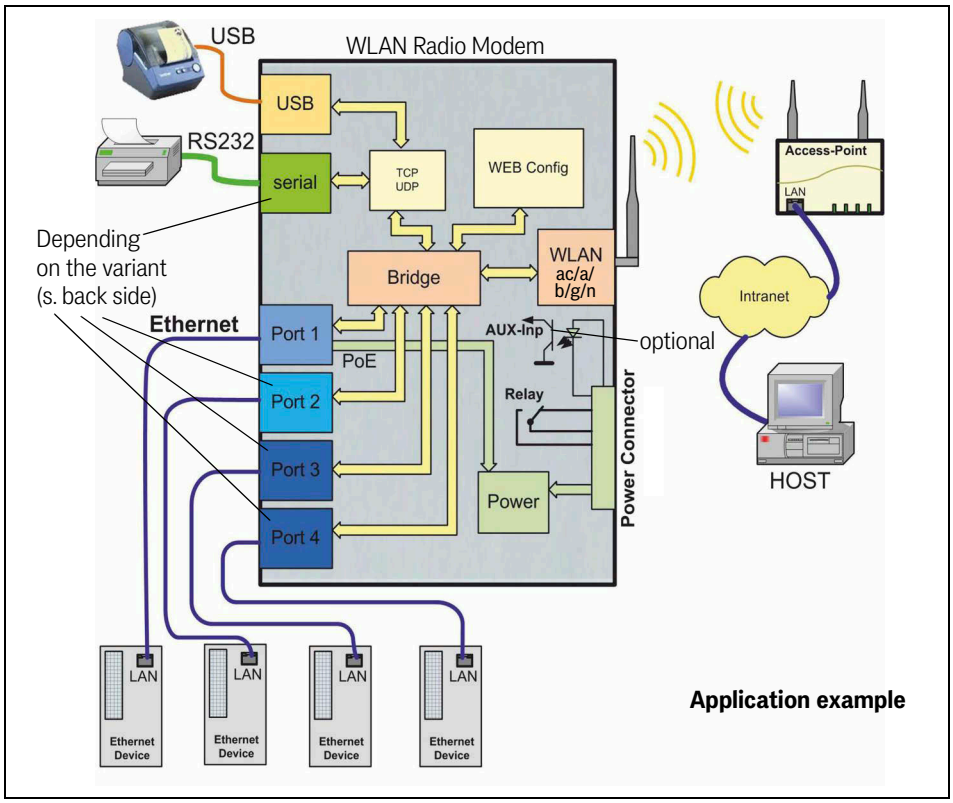
Data Sheet

In the picture: Variant HG G-76343ZA



Description



The Client Adapter HG G-76343/4/5-A ac is a wireless LAN adapter (in Götting documents the terms radio modem respectively WLAN client are used synonymously) that connects devices via Ethernet, USB or serial port to wireless networks conforming to the 802.11 ac/a/b/g/n standard. The radio modem connects all devices that are connected to its LAN interface to a network reachable via WLAN. This includes applications with mobile vehicles like forklifts or AGVs.

Via a serial interface the radio modem can receive and transmit data that is sent or received by a communication partner connected to the network (WLAN or LAN). This communication partner can also be a radio modem or a computer that sends resp. receives via a matching application. The USB port makes it possible to connect extensions like e.g. additional serial interfaces or I/O interfaces.

Overview

- WLAN client for 802.11 ac/a/b/g/n via 2.4 + 5 GHz WLAN, data rate up to 866 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 antenna connectors for diversity
- 1-4x Gigabit LAN interfaces
- 1x serial interface (not in HG G-76345): RS232, RS485 or RS422, Serial-Client via TCP or UDP
- 1x USB 2.0 interface, also for additional interfaces
- 1x switching relay
- 1x AUX input (optional)
- Voltage supply 10-60V or via PoE (LAN)
- Robust aluminum casing with different mounting
- Configuration via the internal web server, REST-API or with the help of the dedicated MC-Config program

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Product page: https://goetting-agv.com/components/76343

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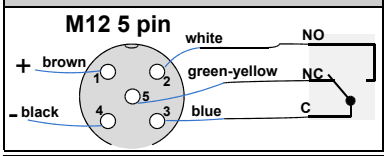
Perfectly suited for mobile vehicles like fork lift trucks and AGVs

- Input voltages from 10 to 60 VDC galvanically isolated for battery operation or Power over Ethernet (PoE)
- Current consumption <= 5 W, ideal for standby operation of battery-powered vehicles
- Temperature range 0 to 60° C
- Relay contact triggered via WLAN for re-activation of vehicles in standby mode
- Robust aluminum casing with different options for fixing (strap, top hat rail)
- Voltage supply and relay contact via screwable M12 connectors
- 2 antenna connectors (Diversity)
- Different antenna plugs, RP-SMA (standard), RP-TNC (optional)

Mounting Notes

The device is available in three versions, see box on the right. Two are suitable for mounting on a top hat rail. One has a flanged housing with screw lugs. The different versions have different order numbers, which can be found in the variant table on the top right.

Pin allocation 5 pin M12 Power/Relay



Pin allocation 9 pin Sub-D Serial

	RS232		RS485/422	
Pin	Funct.	IN/OUT	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-76343YA ac

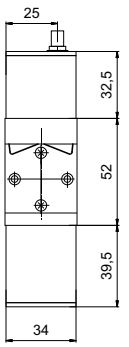
- Production series (no functional relevance)
- Functional Model / Version
- Identification Number / Type
- G: Device | K: Component | S: System | W: Software
- HG: Götting | HW: Resale

Variants of the Radio Modem

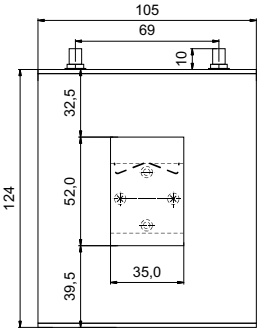
Order No.			Mounting	Serial	ETH1	ETH2	ETH3	ETH4
HG G-76343	XA	ac	Top hat rail mounting narrow side	✓	✓	–	–	–
	YA		Top hat rail mounting long side					
	ZA		Flange casing					
HG G-76344	XA	ac	Top hat rail mounting narrow side	✓	✓	✓	–	–
	YA		Top hat rail mounting long side					
	ZA		Flange casing					
HG G-76345	XA	ac	Top hat rail mounting narrow side	–	✓	✓	✓	✓
	YA		Top hat rail mounting long side					
	ZA		Flange casing					

Casing Dimensions / Mounting Possibilities

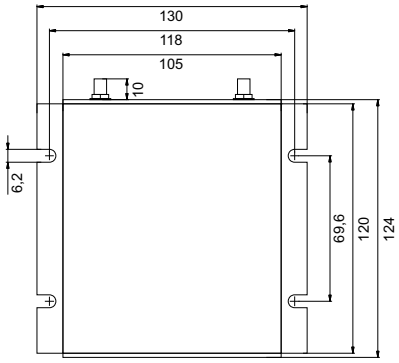
Casing XA
Top hat rail mounting Narrow side



Casing YA
Top hat rail mounting long side



Casing ZA
Flange casing



Technical Data

Dimensions / Weight	Standard: 125 x 105 x 35 mm, approx. 400 g
Environmental conditions	Temperature range 0 - 60° C, protection class IP 20
Voltage supply	10 to 60 V DC via 5-pol. M12 connector (screwable) or PoE (802.3af) via LAN-Port 1
Power consumption	<= 5 W (3 W typically)
Antenna connectors	2x RP-SMA antenna connectors (optional TNC or RP-TNC)
Ethernet	1-4x LAN-Port 10/100/1000 MBit Auto MDI/MDIX (RJ45)
Serial (not for HG G-76345)	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 or for logging system messages onto USB storage media or USB adapters with additional interfaces
Relay	1x change-over contact max. 1A@24V, max. 125VAC
Switching input (AUX)	Optional: 1 x galvanically isolated 10 – 60V AUX Input
Display elements	4 LEDs: Power | WLAN (wireless) | LAN | SER (Serial)
WLAN interface	802.11 a/b/g/n WLAN (2,4 GHz + 5 GHz), conform to EN 300 328 V1.8.1
Antennas	2 antennas (2T2R MIMO)
Encryption	WEP (64/128 Bit) + TKIP/AES
Security	802.11i WPA(2 + 3) - PSK 802.1x EAP-PEAP, -TLS, -TTLS, -LEAP
Channels	802.11b/g/n: ETSI 1-13, USA/Kanada 1-11 802.11a/n/ac: ETSI 19 + 5, USA/Canada 25 (U-NII-1 + UNII-2A + U-NII-2C + U-NII-3)
Data rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n MCS0-7 802.11n (20 MHz): NSS=1: max. 72.2 Mbps | NSS=2: max 144.4 Mbps 802.11n (40 MHz): NSS=1: max. 150 Mbps | NSS=2: max. 300 Mbps 802.11ac MCS0-9 802.11ac (20 MHz): NSS=1: max. 86 Mbps | NSS=2: max. 173 Mbps 802.11ac (40 MHz): NSS=1: max. 180 Mbps | NSS=2: max. 360 Mbps 802.11ac (80 MHz): NSS=1: max. 433 Mbps | NSS=2: max. 866 Mbps
Output power & sensitivity	For information on the transmission power, please refer to the device description, which you can download here: https://goetting-agv.com/components/76343

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