Data sheet

LD6QUGWGB0 6D00001-B / 07.05.2026 /

Q gateway 6 direct

Gateway

- reception and encrypted transmission of measuring device data
- reception of all QUNDIS devices in C-Mode as well as wM-Bus compatible, unidirectional measuring devices from other manufacturers
- encrypted NB-IoT / LTE-M mobile network transmission
- available as a battery or mains-powered device version

Application

The Q gateway 6 direct combines the automated secure Internet connection via NB-IoT / LTE-M mobile radio and secure radio networking in the smart meter subsystem.

Thanks to the use of a high-performance battery and extremely low power consumption, the Q gateway 6 direct achieves a service life of up to 12 years. This makes the Q gateway 6 direct the ultimate solution for applications and projects that require complete energy autonomy. The system contributes to considerable savings in time, effort and costs and the quality of service leads to increased customer satisfaction.

Features and functions

- Wireless M-Bus 868 MHz
- excellent ISM radio reception
- NB-IoT / LTE-M mobile network transmission
- highest possible wireless connectivity through national and international roaming
- automatic selection of the optimal network guarantees maximum operating time
- battery operation, designed for up to 12 years - depending on the operating scenario and mobile network, 5 years guaranteed in accordance with the QUNDIS Gateway-Service-Description terms and conditions
- integrated GSM and ISM antennas
- operation possible under a wide range of ambient conditions
- simple installation on site

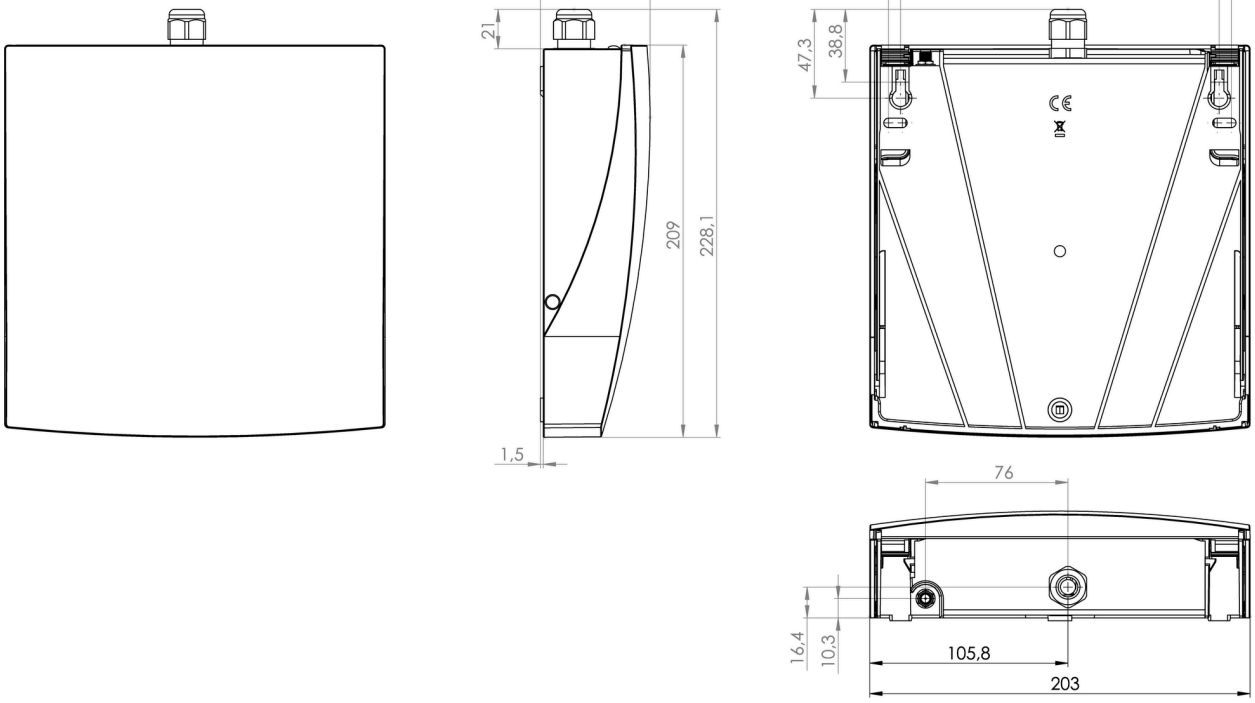
Technical data

Ambient conditions	
Protection rating	GW6x xxxx 0xxx [...]: IP42 according to EN 60529 GW6x xxxx 1xxx [...]: IP65 according to EN 60529
Protection class	GW6x xxxx x3xx [...]: III according to EN 61140 GW6x xxxx x1xx [...]: II according to EN 61140
Transport	-25 °C ... 70 °C, < 95 % r.h. (without condensation)
Storage	-5 °C ... 45 °C, < 95 % r.h. (without condensation)
Usage indoor area	GW6x xxxx 0xxx [...]: -5 °C ... 55 °C, < 95 % r.h. (without condensation)
Usage weather-protected outdoor area	GW6x xxxx 1xxx [...]: -20 °C ... 55 °C, < 95 % r.h. (without condensation)
Radio technology ISM-Band	
Radio protocol	Wireless M-Bus according to EN 13757-4, C/T-Mode
Radio frequency	EN 300 220-2 C/T-Mode (868,95 +/- 0,25) MHz
Transmission power	≤ 14 dBm (with other wireless M-Bus device in C-Mode)
RSSI measurement signal strength	yes
Encryption	Security Mode 5 and 7 according to EN 13757-7, Security Profile A and B according to OMS specification

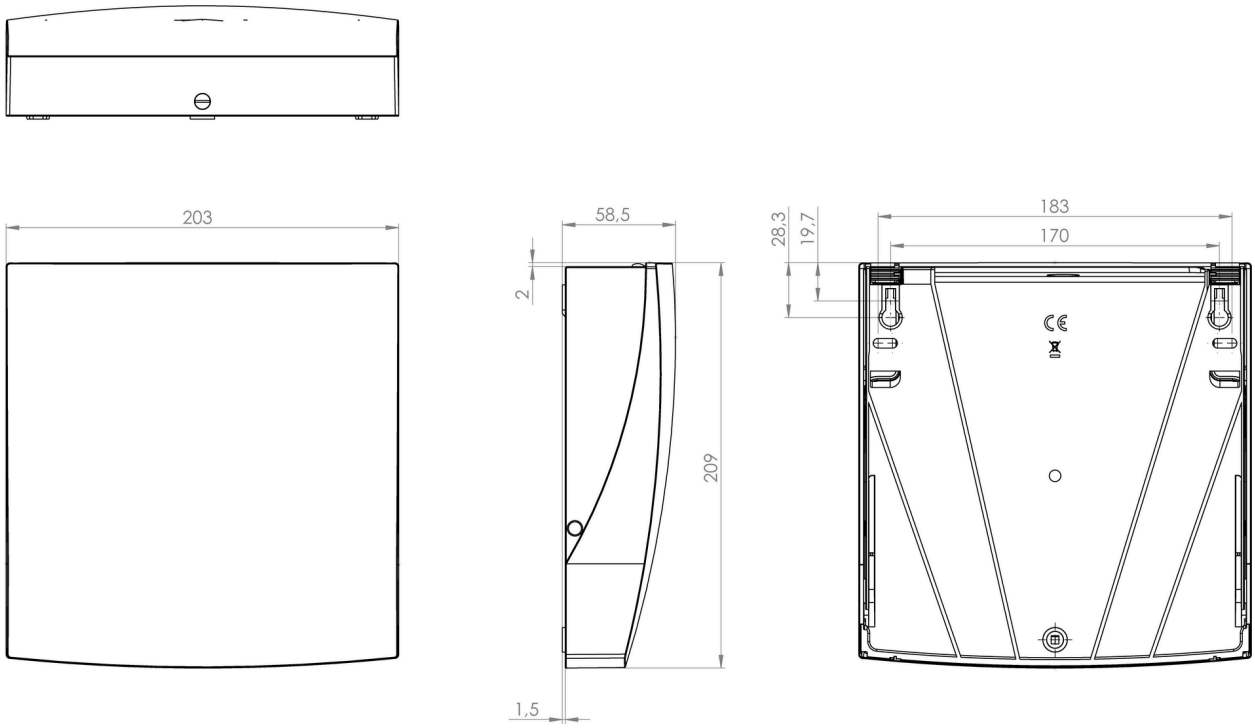
Radio technology ISM-Band	
GSM and ISM antennas	fully integrated high-performance GSM and ISM antennas
Radio technology NB-IoT/LTE-M	
Radio frequency	800 MHz (B20), 900 MHz (B8), 1800 MHz (B3)
Maximum RF output power	Class 3 (23 dBm +/- 2 dB)
Standards	
Interference resistance and interference emission	EN 301 489-1, EN 301 489-3
Safety	EN 62368-1 , EN 62311
Power supply, battery-powered device version	
Lithium battery	Nominal voltage 3,0 V, non-rechargeable
Battery life	Designed for up to 12 years - depending on the operating scenario and mobile network, 5 years guaranteed in accordance with the QUNDIS gateway service description.
Power supply, mains-powered device version	
Nominal voltage	100 ... 240 V AC, 50/60 Hz
Material	
Dimensions W x H x D	203 x 209 x 58,5 mm
Weight Device	battery-operated device vers: 849 g mains-operated device version: 683 g
Material Housing	Polycarbonat (PC) + ABS-thermoplastic, UL94 certified
Colour Housing	RAL9016, traffic white
Mounting material	GW6x xxxx x3xx [...]: 2 dowels S6, 2 Torx 20 screws 4.0 mm x 40 mm, 1 seal GW6x xxxx x1xx [...]: additional cable gland MBF M16 x 1.5 mm, hexagon nut M16 x 1.5 mm

Dimensional drawings

Mains-powered device version



Battery-operated device version



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