

Interfaces

- 4 IO-Link Ports (M12)
- 4 Digital Inputs (4 pins of the M12 connector)
- 4 Digital Outputs (4 pins of the M12 connector)
- Ethernet Port (M12)
- 3 SMA for Cellular and GNSS
- 12 Status LEDs

Product and Hardware Features

- LTE CAT1/4 Cellular Module or 5G optional
- Simultaneous support of GPS, Glonass, Beidou, Galileo, QZSS
- eSim onboard and Nano SIM Card Holder
- 1GHz ARM Cortex-A8, 512 MB RAM, 4GB Flash (upgradeable to up to 1GB RAM and 16GB Flash)
- 10/100 MB Ethernet port (M12 D-code connector)
- Cryptographic Controller MAXQ1061 Secure Storage, Digital Signature, Encryption, Secure Boot, and TLS/SSL Communication Protocol
- Customized applications on cloud and edge side
- DIN Rail adapted with wall mounting options

Cellular

IO-GATE with 4G module (SET-IOGATE-LE910C1-WWX)

- LTE CAT1/4
- LTE FDD Cat.4, 3GPP release 10 compliant
- LTE FDD Cat.1, 3GPP release 9 compliant
- Up to 150 Mbps DL/50 Mbps UL data rates
- Rx Diversity and MIMO DL 2x2
- Single Rx option
- Simultaneous support of GPS, Glonass, Beidou, Galileo, QZSS

IO-GATE with 5G module (SET-IOGATE-LE910C1-WWX+)

- Up to 5.5 Gbps DL/2.7Gbps UL data rates on 5G
- Standard M.2 (NGFF) data card form factor
- 5G Sub-6 FDD and TDD and mmWave
- SA and NSA 5G Option 3a/3x and Option 2
- 3GPP Release 15
- 4G Category 20, aggregation of up to 7 carriers
- Multi-constellation gpsOne Gen 9 L1/L5 GNSS receiver

Fully programmable OS with well documented SDK
Multiple VPN options available including DMVPN & IPSEC

Cloud

- Protocols: MQTTS – HTTPS
- Ready Cloud Connection for AWS
- Device Management and Ready-to-use Dashboard

Environmental

- Housing:
 - Dimensions: 180 x 180 x 42 mm
 - Weight: 0.808 kg
- Operating Conditions:
 - Ambient temperature [°C] -25...60
 - Storage temperature [°C] -25...85
- Power Supply: 9-32 Volts, min. 4A (M12 connector)
- Power Consumption: 0.5 to 4A
- Protection class III
- Housing material: metal (aluminium 6062)



Certifications

- CE / RED (ongoing)
- FCC/PTCRB and WW (ongoing)

Available for

- EMEA
- USA and Global support

Part-No

5G IO-GATE
SET-IOGATE-LE910C1-WWX+
4G IO-GATE
SET-IOGATE-LE910C1-WWX

Pilot-Kit components (1 IO-Gate, Power supply, 1 Sensor, 1 Alarm lamp, Antenna, Sim card with data, AWS Cloud connectivity)



Designed and manufactured
to perfection in Germany.

Please contact us for more information:



info@roundsolutions.com
+49 6102 799 280
www.roundsolutions.io
www.IO-GATE.io

Round Solutions GmbH & Co. KG
Hans-Boeckler-Str. 16
63263 Neu-Isenburg / Germany

