

periGATE LTE-M

LTE Single Pair Ethernet gateway



The periGATE LTE-M connects SPE-capable intelligent components within the Local Area Network to the Internet. Supplied only by one Hybrid SPE cable.

Targeted Applications

- Industrial sensors
- Industrial control
- IoT
- Remote sensor access
- Building automation

periGATE LTE-M Features

- LTE Cat M1/NB2 modem
- LTE-M and NB-IoT support
- For global operation
- Max. 588Kbps downlink / 1119Kbps up-link
- IPv6 to IPv4 routing, TLS, https
- DNS, mDNS and LLMNR name resolving
- WebUI and RESTful API
- Configuration with PIN, APN, PAP/CHAP username and password
- Over-the-air firmware update

periGATE Single Pair Ethernet Hybrid Interface

- M8 male connector according to IEC 63171-6:2020 (style 6P-M8C without shielding)
- 100BASE-T1 Single Pair Ethernet (IEEE 802.3bw)
- 24VDC power input

periGATE LTE-M Interface

- integrated LTE-M antenna
- Micro-SIM (3FF) card slot
- LTE-M bands 3, 8 and 20
- Power consumption: 8W (max)
- Output power: LTE Power Class 5 (21dBm)

Security

- NIST compliant TLS implementation
- Certificate based client authentication
- AES encryption algorithm
- X.509 certificates and PKIX path validation
- Elliptic Curve Cryptography (ECC)
- RSA Cryptography

Recommended Environment Conditions

- Operating conditions: 0°C...+55°C
- Storage conditions: -35°C...+70°C
- IP67 protection

Housing

- Dimensions: 120 x 56 mm

Compliance

- RoHS
- CE
- FCC
- CCC

Application Example

This application example shows how to run a remote network of SPE devices (Edge Computer, sensors) wirelessly via LTE-M.



Ordering Code	Product Name	Description
PRN.000.042	periGATE Wi-Fi®	A Wi-Fi® to single pair ethernet gateway
PRN.000.043	periGATE LTE-M	An LTE-M to single pair ethernet gateway