

periGATE Wi-Fi®

Singe Pair Ethernet to Wi-Fi® gateway



The periGATE Wi-Fi® connects SPE-capable intelligent components within the Local Area Network to the external Wi-Fi® network (WLAN). By bridging both networks, all SPE devices can be reached via their mDNS and IPv6 link-local address. Broadcast support and IP autoconfiguration by the wireless access point or LAN router can be achieved as well. No additional IP configuration is needed to integrate periGATE Wi-Fi® into an existing WLAN.

Targeted Applications

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

periGATE Wi-Fi® Features

- Wi-Fi® STA (client) mode
- Wi-Fi® 5 (802.11a/n/ac Wave2) 5GHz with 2x2 MU-MiMo, 866.7Mbps data-rate
- Wi-Fi® 4 (802.11b/g/n) 2.4GHz, 300Mbps data-rate
- Dual-band Wi-Fi® 2.4 (channels 1 to 13) and Wi-Fi® 5 GHz (channels 36 to 48)
- WPA / WPA2 - PSK - TKIP / CCMP security modes
- Bridge mode, TLS, HTTPS
- DNS, mDNS and LLMNR name resolving
- WebUI and RESTful API
- 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 Wi-Fi® Interface

- integrated Wi-Fi® antenna
- Power consumption: 7W (max)
- Output power
 - 22 dBm (IEEE 802.11b/g/n)
 - 18 dBm (IEEE 802.11a/n/ac)

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

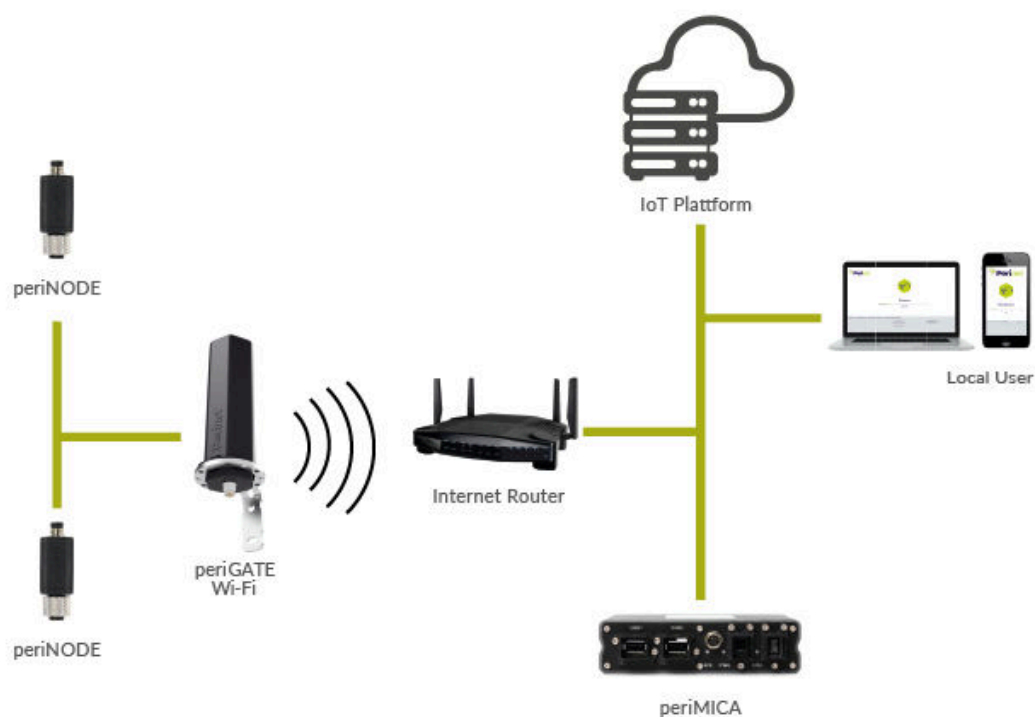
- Dimensions: 120 x 56 mm

Compliance

- RoHS
- CE
- FCC
- CCC

Application Example

This application example shows how to connect remote SPE devices (Edge Computer, sensors) wirelessly to a company network.



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