



# Industrial IoT Gateway

## AirGate 4G Lite



**AirGate 4G Lite** is a cost-effective industrial IoT **Gateway**. It uses the **4G network** and guarantees secure remote access to distributed applications.

It has the most common encryption protocols and firewall functions in most IT infrastructures, including automatic fallback to 4G, 3G and 2G networks if one of the networks that is within range is downlinked.

It has 1 slot for **dual SIM card** that guarantees operator redundancy and an automatic failover function, 1 Ethernet port and **RS485 / RS232** interfaces with native **Modbus RTU** protocol.

With excellent flexibility, it can operate with any other communication protocol on any interface. Easy to install and configure, it can be managed with local or remote access via web.

High performance at extended operating temperatures and CE Mark certification ensures the robustness and reliability of the device in industrial applications.

Designed for remote access, it simplifies the device access architecture. In addition, **AirGate 4G Lite**, operating as a **master** in a **Modbus RTU** network, allows you to read many process variables and send configurable **alerts** by **SMS or e-mail**.

Ready for use on **IoT platforms**, it guarantees data communication with a **secure MQTT**. This makes it possible to send data from devices on legacy networks to cloud systems.

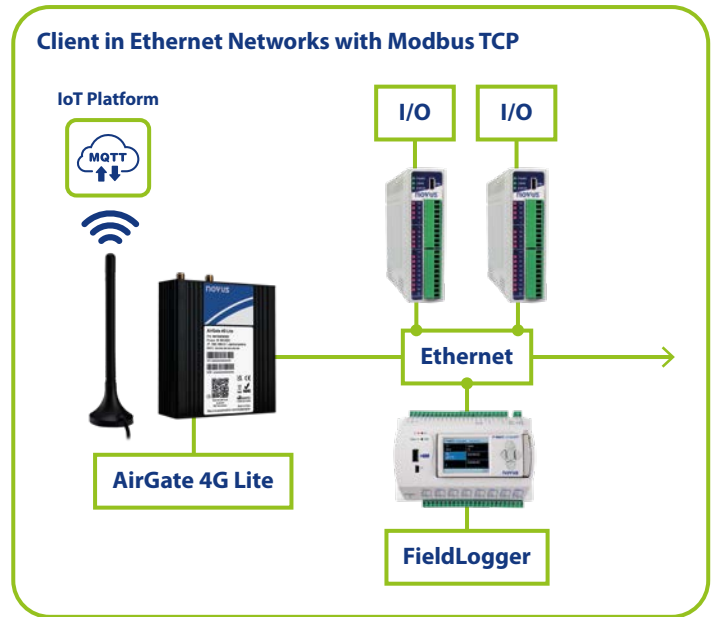
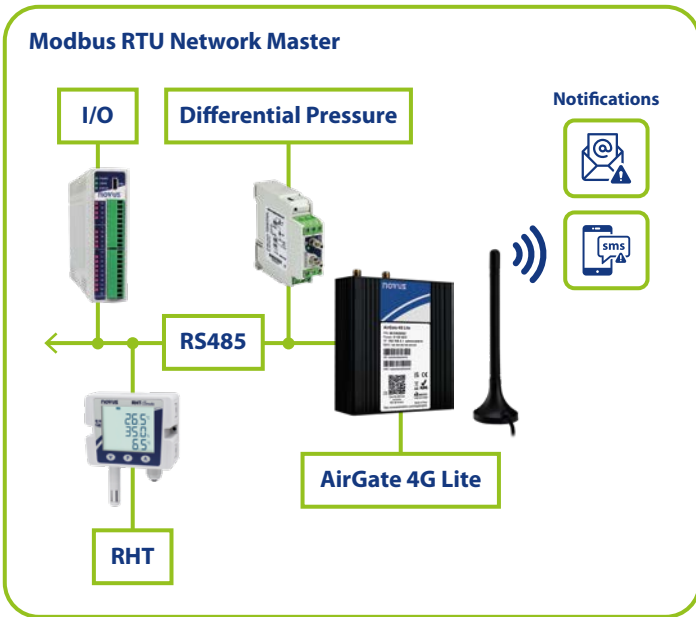
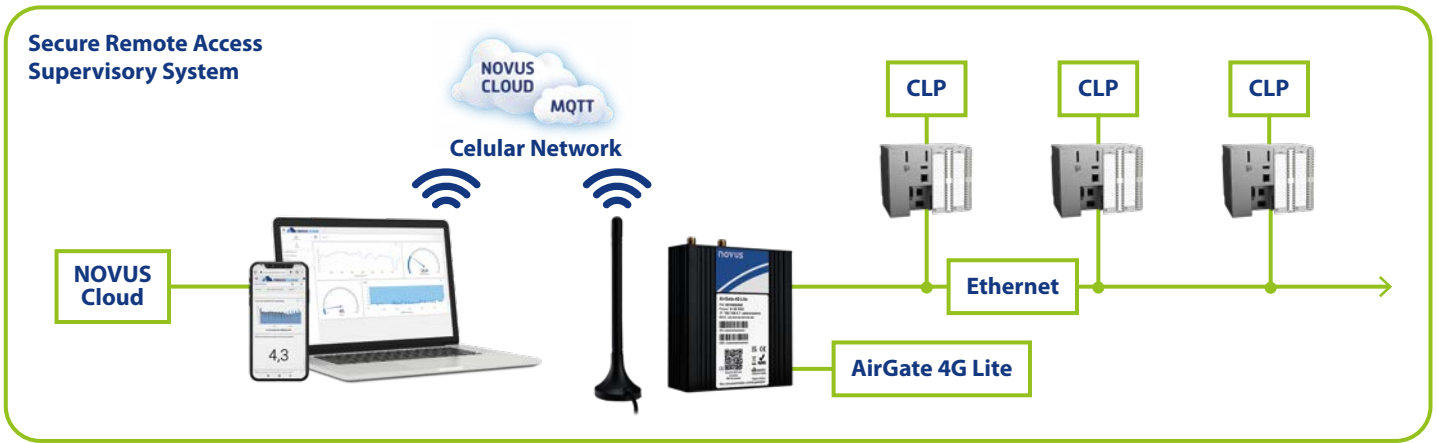
**SECURE REMOTE ACCESS**

**PROCESS AWARENESS VIA ALERT**

**SECURE MQTT TO CLOUD**

**FLEXIBILITY FOR ANY PROTOCOL**

# Topology



## Technical Specifications

|                           |   |
|---------------------------|---|
| <b>Cellular Interface</b> | 4G LTE: LTE FDD, LTE TDD<br>3G UMTS: DC-HSDPA, HSUPA, WCDMA<br>2G GSM: EDGE, GPRS<br>2 x SMA female antenna connector<br>2 x SIM (3.0 V and 1.8 V)  |
| <b>Ethernet Interface</b> | Standards: IEEE 802.3, IEEE 802.3u<br>1 x 10/100 Mbps port, RJ45 connector<br>1.5KV magnetic isolation protection   |
| <b>Serial Interface</b>   | 1 x RS232 (3 pin): TX, RX, GND<br>1 x RS485 (2 pin): A, B<br>Baud Rate: 300 bps to 115.200 bps<br>15 KV ESD protection  |
| <b>LED</b>                | SYS LED: Operation<br>NET LED: Mobile network<br>USR LED: SIM Card 1/2<br>3 RSSI LEDs: Strength of the cellular signal  |
| <b>Software</b>           | Network protocols: DHCP, ICMP, PPPoE, HTTP, HTTPS, DNS, VRRP, NTP, MQTT, FTP, TCP, Modbus RTU master, Modbus TCP client<br>VPN: IPSec, GRE, OpenVPN, DMVPN<br>Policy: RIPv1 / RIPv2 / OSPF / BGP (optional)<br>Firewall & Filter: Port forwarding, DMZ, anti-DoS, ACL<br>Serial Port: TCP, UDP<br>Management: Web Interface |

|                          |   |
|--------------------------|---|
| <b>Alerts</b>            | SMS and e-mail  |
| <b>Power Supply</b>      | Input voltage range: 9 to 48 VDC  |
| <b>Power Consumption</b> | Inactive: 50 mA to 12 V<br>Data connection: 200 mA (peak) @ 12 V                                  |
| <b>Dimensions</b>        | 82.4 mm x 93.3 mm x 28.8 mm (excluding antenna)   |
| <b>Mounting</b>          | DIN rail mounting   |
| <b>Environmental</b>     | Operation temperature: -40 to 75 °C (-40 to ? °F)<br>Operation humidity: 5 to 95 % non-condensing |
| <b>Metal Housing</b>     | 300g  |
| <b>Protection</b>        | IP30  |
| <b>Certification</b>     | CE, Anatel (13384-23-12560), RoHS, EN50155 Vibration  |