



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**

For pricing or any further information, please contact Omni Instruments Ltd.



Measurement and data acquisition solutions

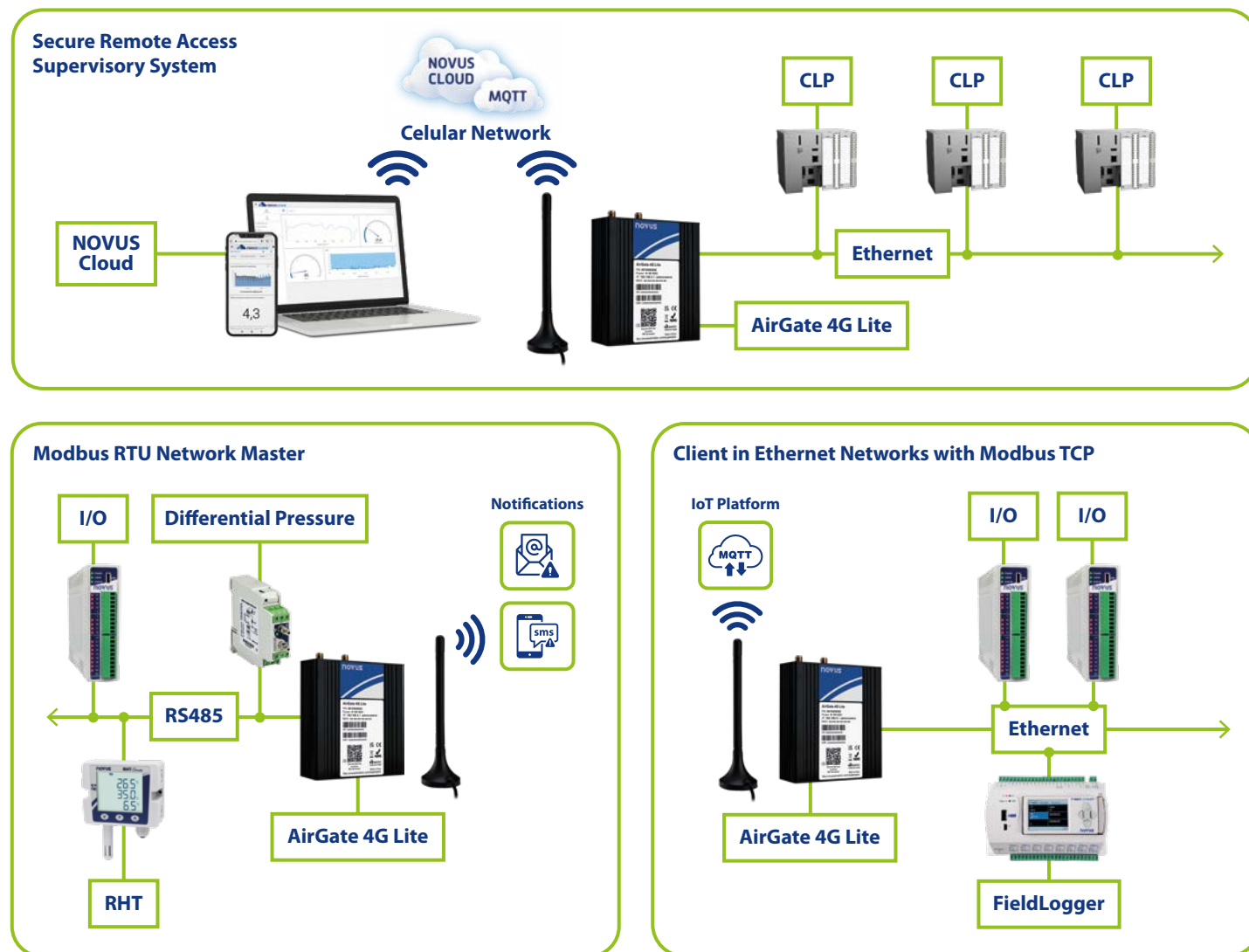
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Topology



Technical Specifications

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

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

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