Industrial VPN Router
AirGate 4G

ANATEL · **ISO 9001:2015 CERTIFIED COMPANY** · CE · RoHS

SECURE REMOTE ACCESS

PROCESS AWARENESS VIA ALERT

SECURE MQTT TO CLOUD

FLEXIBILITY FOR ANY PROTOCOL
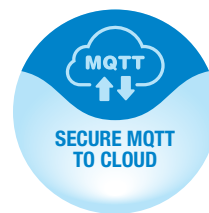
AirGate 4G is an industrial cellular network VPN router that ensures secure remote access to distributed applications. It has the most common encryption protocols and firewall function found in most IT infrastructures, including automatic fallback for 4G / 3G / 2G cellular networks.

Both high-availability performance at extended operating temperatures and CE Mark approval ensures the device robustness and reliability. With DIN rail mounting clips and external magnetic antennas, it can be panel mounted for any type of application.

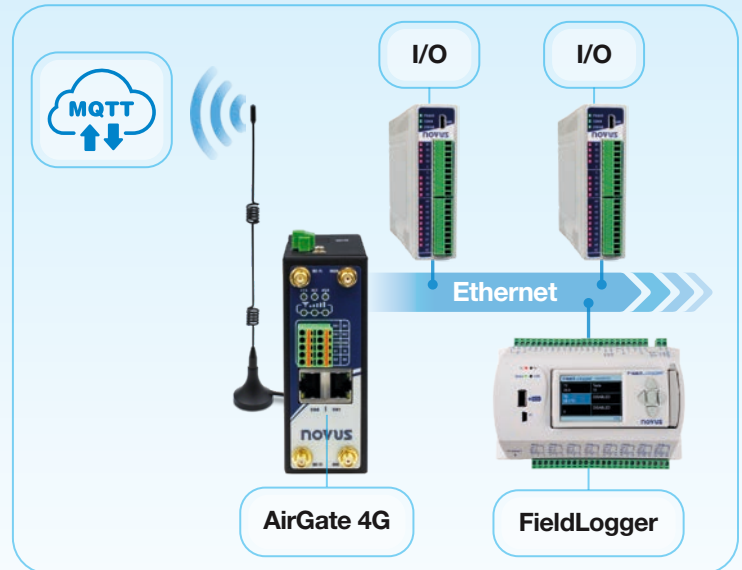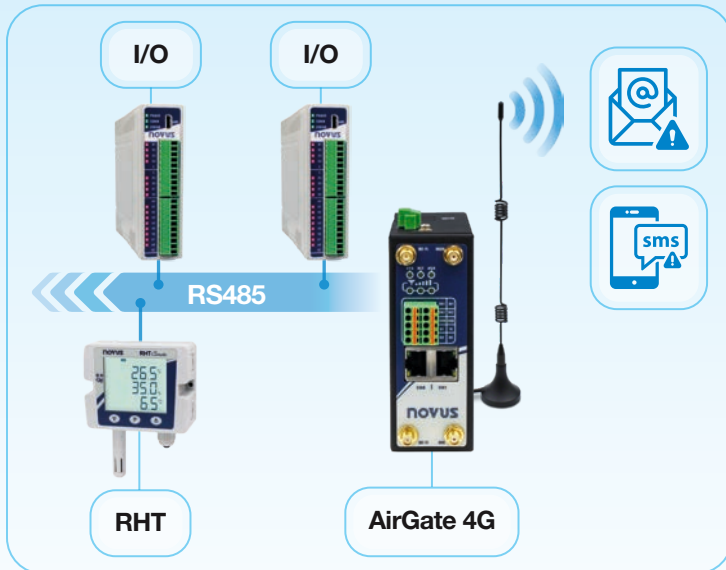Endowed with high connectivity, it has dual SIM card for redundancy and automatic failover, two Ethernet ports, Wi-Fi connection and RS485/RS232 interfaces. With excellent flexibility, it can operate with any communication protocol on any interface. Easy to install and configure, it can be managed with local and remote web access.

Designed for remote access for distributed networks, it simplifies architecture for accessing devices, thus not requiring the use of PLC or SCADA system to manage the network. Moreover, **AirGate 4G** enables process awareness via configurable alerts by SMS and e-mail.

Ready-to-use in cloud platforms, it provides secure MQTT data communication to enable sending data from legacy industrial networked devices to cloud systems.

www.novusautomation.com/en/airgate4g

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Topology

SECURE REMOTE ACCESS SUPERVISORY SYSTEM

CELULAR NETWORK

SCADA — CLP — CLP — CLP — Ethernet — AirGate 4G

I/O — I/O — RS485 — RHT — AirGate 4G

MQTT — I/O — I/O — Ethernet — AirGate 4G — FieldLogger

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)
Wi-Fi Interface	Standards: 802.11 b/g/n, 300 Mbps 2 x RP-SMA male antenna connector Support Wi-Fi Access Point and Client modes Security: WEP, WPA and WPA2 encryption Encryption: TKIP and CCMP
Ethernet Interface	Standards: IEEE 802.3, IEEE 802.3u 2 x ports 10/100 Mbps, RJ45 connector 1 x WAN interface (conFigureble on Web GUI interface) 1.5KV magnetic isolation protection
Serial Interface	1 x RS232 (3 pin): TX, RX, GND 1 x RS485 (2 pin): D1, D0 Baud Rate: 300 bps to 115.200 bps 15 KV ESD protection
Digital Input and Digital Output	2 x Digital Inputs 2 x Digital Outputs Isolation: 3 KVDC or 2 KVrms Absolute maximum VDC: 36 VCC Absolute maximum ADC: 100 mA
LED	1 x SYS | 1 x NET | 1 x USR | 3 x RSSI

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	Connector: 3-pin 3.5 mm female socket with lock Input voltage range: 9 to 48 VDC Power consumption: Idle: 100 mA @ 12 V Data Link: 400 mA (peak) @ 12 V
Dimension	106 mm x 106 mm x 40 mm (excluding antenna)
Mounting	DIN rail mounting
Environmental	Operation temperature: -40 to 60 °C (-40 to 140 °F) Storage temperature: -40 a 85 °C (-40 to 185 °F) Operation humidity: 5 to 95 % non-condensing
Housing Metal	300g
Protection	IP30
Certification	CE, Anatel (07661-19-12560), RoHS

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