

# GATEWAYS

## Selection Guide



**USB i485 Converter**

**AirGate Modbus**

**DigiGate Profibus**

**AirGate 4G**

Gateway Type	Wired	Wireless	Wired	4G/3G/2G VPN Router
Communication Interfaces	USB and RS485 / RS422	USB, RS485 and IEEE802.15.4	RS485 and Profibus	4G/3G/2G, 2x Ethernet, Wi-Fi, RS485, and RS232
Isolation	Between USB and RS485 / RS422	Between Profibus and the rest of device	On Ethernet, Digital Inputs and Outputs	Yes, on Ethernet, Digital Inputs and Outputs
Protocols	Modbus RTU	Modbus RTU and Novus-Air	Modbus RTU and Profibus DP	TCP, UDP, DHCP, ICMP, PPPoE, HTTP, HTTPS, DNS, VRRP, NTP
Network Topology	Bus	Point-to-point, star and tree	Modbus: Point-to-multipoint Profibus: Bus	Several topologies (See Manual)
Wireless Features		ISM 2.4 GHz, DSSS, OQPSK, 15 channels, Tx Power 20dBm, Sensitivity -96dBm, Line-of-Sight Range 1000 m		Wi-Fi: Standard 802.11 b/g/n, 300 Mbps, Access point and Client modes 4G LTE: LTE FDD: 2100 (B1) / 1900 (B2) / 1800 (B3) / 1700 (B4) / 850 (B5) / 2600 (B7) / 900 (B8) / 700 (B28) MHz LTE TDD: 2300 (B40) MHz 3G UMTS: 2100 (B1) / 1900 (B2) / 850 (B5) / 900 (B8) MHz 2G GSM: 1900 (B2) / 1800 (B3) / 850 (B5) / 900 (B8) MHz
Security Features		AES-CBC-128 Encryption		VPN tunnel (IPSec/OpenVPN/GRE/DMVPN) Firewall & Filter: Port forwarding, DMZ, anti-DoS, ACL
Modes of Operation	Automatic detection by PC	RS485-Master, USB-Master, Multi-Master, RS485-Slave	Modbus-Master and Profibus-Slave	VPN Tunnel, Gateway Modbus TCP to RTU, Gateway IP to serial
Additional Features				Alarm by SMS, Dual SIMCARD, 2 Digital Inputs, 2 Digital Outputs
Firmware Upgrade		USB		Yes, by Ethernet or Wi-Fi
Power Supply	5 V by USB Connection	10 ~ 35 Vdc	10 ~ 35 Vdc	9-48 Vdc
Programmable Functions		Mode of Operation and Communication Settings	Scan Rate and Communication Settings	See Manual
Configuration		USB with DigiConfig	RS485 with DigiConfig	Yes, via WEB browser
Housing	Injected in ABS	Injected in PA66	Injected in PA66	Metal Box with DIN rail clip
Dimensions	70 x 60 x 18 mm	99.5 x 114 x 17.5 mm	99.5 x 114 x 22.5 mm	106 x 106 x 40 mm
Operating Range	Temperature 0 to 50 °C Humidity 10 to 90%	Temperature 0 to 70 °C Humidity 80% up to 30 °C	Temperature 0 to 50 °C Humidity 30 to 80%	Temperature -40 to 60 °C Humidity 5 to 95%
Protection Rating	IP20	IP20	IP20	IP20
Electric Protection	Bus overvoltage and ESD	Reverse Polarity	Bus overvoltage and ESD	Polarity inversion, surge and ESD
Certifications	CE	Anatel, CE, FCC		Anatel, CE