# GATEWAYS
## Selection Guide

### USB i485 Converter
- **Gateway Type**: Wired
- **Communication Interfaces**: USB and RS485 / RS422
- **Protocols**: Modbus RTU
- **Modes of Operation**: Bus
- **Security Features**: Between USB and RS485 / RS422
- **Wireless Features**: ISM 2.4 GHz, DSSS, OQPSK, 15 channels, Tx Power 20dBm, Sensitivity -96dBm, Line-of-Sight Range 1000 m
- **Encryption**: AES-CBC-128 Encryption
- **Protection Rating**: BUS overvoltage and ESD
- **Certifications**: CE
- **Dimensions**: 70 x 60 x 18 mm
- **Temperature**: 0 to 50 °C
- **Humidity**: 10 to 90%
- **Protection Rating**: IP20

### AirGate Modbus
- **Gateway Type**: Wireless
- **Communication Interfaces**: USB, RS485 and IEEE802.15.4
- **Protocols**: Modbus RTU and Novus-Air
- **Modes of Operation**: Point-to-point, star and tree
- **Security Features**: Modbus RTU and the rest of the device
- **Wireless Features**: ISM 2.4 GHz, DSSS, OQPSK, 15 channels, Tx Power 20dBm, Sensitivity -96dBm, Line-of-Sight Range 1000 m
- **Encryption**: AES-CBC-128 Encryption
- **Protection Rating**: BUS overvoltage and ESD
- **Certifications**: CE
- **Dimensions**: 99.5 x 114 x 17.5 mm
- **Temperature**: 0 to 70 °C
- **Humidity**: 80% up to 30 °C
- **Protection Rating**: IP20

### DigiGate Profinet
- **Gateway Type**: Wired
- **Communication Interfaces**: RS485 and Profinet
- **Protocols**: Modbus RTU and Profinet DP
- **Modes of Operation**: Modbus: Point-to-multipoint Profinet: Bus
- **Security Features**: On Ethernet, Digital Inputs and Outputs
- **Wireless Features**: RS485 and Profibus 4G/3G/2G
- **Protection Rating**: BUS overvoltage and ESD
- **Certifications**: CE
- **Dimensions**: 99.5 x 114 x 22.5 mm
- **Temperature**: 0 to 50 °C
- **Humidity**: 30 to 80%
- **Protection Rating**: IP20

### AirGate 4G
- **Gateway Type**: 4G/3G/2G VPN Router
- **Communication Interfaces**: 4G/3G/2G, 2x Ethernet, Wi-Fi, RS485, and RS232
- **Protocols**: Modbus RTU and Novus-Air
- **Modes of Operation**: Modbus: Modbus-Master and Profibus-Slave
- **Security Features**: Yes, on Ethernet, Digital Inputs and Outputs
- **Wireless Features**: 4G LTE: LTE FDD: 2100 (B1) / 1900 (B2) / 1800 (B3) / 1700 (B4) / 850 (B5) / 2600 (B7) / 900 (B8) / 700 (B28) MHz
- **Protection Rating**: BUS overvoltage and ESD
- **Certifications**: Anatel, CE, FCC
- **Dimensions**: 106 x 106 x 40 mm
- **Temperature**: -40 to 60 °C
- **Humidity**: 5 to 95%
- **Protection Rating**: IP20

### USB and RS485 / RS422
- **Firmware Upgrade**: Automatic detection by PC
- **Configuration**: USB with DigiConfig
- **Dimensions**: 10 ~ 35 Vdc
- **Protection Rating**: CE

### Network Topology
- **USB**: Yes, by Ethernet or Wi-Fi
- **Power Supply**: 5 V by USB Connection
- **Certifications**: Anatel, CE

### Operating Range
- **Dimensions**: 10 ~ 35 Vdc
- **Protection Rating**: IP20

### Housing
- **Configuration**: 10 ~ 35 Vdc
- **Certifications**: Anatel, CE

### Operating Range
- **Dimensions**: 9-48 Vdc
- **Protection Rating**: IP20

### Power Supply
- **Configuration**: 9-48 Vdc
- **Certifications**: Anatel, CE