



- **Small and Efficient**
- **IoT Ready**
- **Truly Industrial**
- **Internal Backup Battery**
- **Field Protocol Support**
- **Cloud Certified**
- **Customizable**



Features

Small and Efficient - Powered by NXP i.MX285 CPU, the ReliaGATE 10-05 is a compact and lightweight IoT Edge Gateway that provides efficient performance at less than 2W

IoT Ready - Breadth of connectivity options: 2G and 3G global cellular modem, Wi-Fi, BLE, Fast Ethernet, protected USB and serial ports

Truly Industrial - Wide range power supply with surge, sag, reverse polarity and overvoltage protections, protected USB and serial ports

Internal Backup Battery - Integrated backup battery, providing uninterruptible power supply (UPS) and safe shutdown

Field Protocol Support - Native support for Modbus, S7 and OPC UA, the extensible, secure, and platform-independent industrial interoperability standard

Cloud Certified - Seamless integration with Eurotech Everyware Cloud, Microsoft Azure, Amazon Web Services IoT and other Cloud services

Customizable - Flexible: personalization and full customization options are available, ranging from branding ("skin" and color) to deep HW/SW configurations

Description

The ReliaGATE 10-05 is a compact and efficient Multi-service IoT Edge Gateway for industrial applications that has been designed to comply with global certification requirements.

Based on the NXP i.MX285 CPU, with 512MB of RAM, 4GB of eMMC and a user-accessible microSD slot, the ReliaGATE 10-05 is a low power gateway suitable for intensive workload in industrial applications: it supports a 9 to 36VDC power supply with transient/surge/noise/reverse polarity protection, two protected serial ports (RS-232 and RS-485), and one noise and surge protected USB port. An internal battery provides up to 25 minutes of uptime and allows a safe system shutdown in case of blackout. The ReliaGATE 10-05 features wired and wireless connectivity capabilities: it integrates a cellular modem (2G or global 3G), Wi-Fi, Bluetooth Low Energy, and one Fast Ethernet port.

Installing the ReliaGATE 10-05 is very easy since it's very small, with a total volume of just 112x68x37mm (LxWxH) and lightweight, at just 180g; mounting options include a DIN bar adapter.

The ReliaGATE 10-05 comes with Everyware Software Framework (ESF), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/ OSGi middleware for IoT Edge Gateways.

Distributed and supported by Eurotech, ESF supports ready-to-use field protocols (including Modbus, OPC-UA, S7), MQTT connectivity, web-based visual data flow programming and deep configuration.

ESF is also integrated with Everyware Cloud (EC), Eurotech IoT Integration Platform (separately available), enabling advanced diagnostics, provisioning, and full remote device access and management.

The ReliaGATE 10-05 is Microsoft Azure certified and can be integrated with 3rd party cloud services such as Amazon Web Services IoT.

Ordering code: REGATE-10-05-XX

| XX | | - 31 | - 32 | - 33 | - 34 | - 36 |
|-------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------|------|----------------|------------------------------------------------------------------------------------------------|
| PROCESSOR | CPU | NXP i.MX285, 454MHz, 1 Core | | | | |
| MEMORY | RAM | 512MB DDR2 | | | | |
| STORAGE | Embedded | 4GB eMMC | | | | |
| | Other | 1x microSD Slot (User Accessible) | | | | |
| I/O INTERFACES | Ethernet | 1x 10/100Mbps - RJ45 | | | | |
| | USB | 1x Host 2.0 (Noise and Surge Protected) - Type A | | | | |
| | Serial | 1x RS-232 (Surge Protected, 3 Wires), 1x RS-485 (Surge Protected, with Termination and Fail-safe Resistors), 1x Serial Console RS-232 | | | | |
| RADIO INTERFACES | Cellular | No | 2G, Integrated | No | 3G, Integrated | |
| | Wi-Fi / BT | No | | | b/g/n, BLE | |
| | Antennas (External) | 1x SMA Cellular, 1x RSMA Wi-Fi/Bluetooth | | | | |
| OTHER | UPS | Integrated Li-ion Battery (3.7V, 170mAh), Enabling Safe Shutdown and Restore Power State | | | | Integrated Li-ion Battery (3.7V, 1000mAh), Enabling UPS, Safe Shutdown and Restore Power State |
| | Ext. Watchdog | Yes | | | | |
| | LEDs | 1x Power, 1x Cellular Status, 2x Programmable (Dual Color Green/Amber) | | | | |
| | Buttons | 1x Reset, 1x Programmable | | | | |
| | SIM Slot | 1x microSIM (User Accessible) | | | | |
| POWER | Input | 9-36VDC (Nominal 24VDC), with Transient/Surge/Noise/Reverse Polarity/Overvoltage Protection | | | | |
| | Consumption | 1.5W Idle | | | | |
| ENVIRONMENT | Operating Temp | 0 to +60°C | | | | |
| | Storage Temp | - 40 to +85°C | | | | |
| CERTIFICATIONS | Regulatory | CE, FCC | | | | |
| | Safety | UL 60950 (§) | | | | |
| | Environmental | RoHS2, REACH | | | | |
| | Wi-Fi / BT Radio | CE (RED), FCC | | | | |
| | Cellular Radio | CE (RED), FCC, PTCRB, AT&T | | | | |
| | IoT Platform | Microsoft Azure Certified | | | | |
| MECHANICAL | Ingress | IP40 | | | | |
| | Enclosure | Material: ABS and Aluminium - Color: Blue and Aluminium | | | | |
| | Dimensions | 112x68x37mm (LxWxH) - Without SMA Connectors | | | | |

Software

| | | |
|-----------------|---------------|---------------------------------------------|
| SOFTWARE | OS | Yocto Linux |
| | SDK | Yocto-based Eclipse Tooling, Oracle Java SE |
| | IoT Framework | Everyware Software Framework (Java/OSGi) |

(§) UL, NRTL listing Factory Option.