



- Ready to Plug
- Ready to Deploy

Features

Ready to Plug - Contains all the hardware needed to get started, including one ReliaGATE 10-05 and a complete set of cables and accessories

Ready to Deploy - Designed to comply with global certification requirements and to quickly move IoT applications solutions from prototype to global deployment

Description

The ReliaGATE 10-05 Development Kit allows for quick development and prototyping of IoT applications on an industrial grade platform which is precertified for global deployment. The kit targets all aspects of an IoT application from hardware interfacing, to development of on-board software and cloud connectivity.

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.

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.

Ordering code: REGTW-D1005-B0024

| | | |
|-------------------------|------------|---|
| 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 | 3G Global |
| | Wi-Fi / BT | b/g/n, BLE |
| OTHER | Battery | Integrated Li-ion Battery (3.7V, 170mAh), Enabling Safe Shutdown and Restore Power State |
| | 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 |

For more specifications and certifications, please check the ReliaGATE 10-05 datasheet.

Included Software

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|-----------------|-----|-----------------------------|
| SOFTWARE | OS | Eurotech Everyware Linux |
| | SDK | Yocto-based Eclipse Tooling |

Included Accessories

| | | |
|-----------------------|---------------|--|
| I/O INTERFACES | Ethernet | 1x RJ45 Male Cable |
| | Serial | 1x Serial Cable (1x RS-232, 1x RS-485 Interfaces - 3 Wires Each) with 2x DB9 Terminal Male Connectors, Wired on a 8P Terminal Block – 1x USB to Serial RS-232 Cable Converter (Debug Port) |
| RADIO | Cellular | 1x Pentaband (GSM/GPRS/UMTS) Antenna with SMA Connector |
| | Wi-Fi / BT | 1x Dipole Wi-Fi / Bluetooth (2.4/5GHz) Antenna with RP-SMA Connector |
| OTHER | Adapter | 1x DB9 Female to Female Gender Changer |
| | Documentation | 1x Quick Start Guide |
| POWER | AC-DC PSU | 1x 24VDC (24W) Power Supply Unit with Terminal Block |
| | Blades | 3x Power Blades for Wall Mount Adapter (US, JP, EU, UK) |
| MECHANICAL | Mounting | 1x Aluminum Wall Mount Bracket, 1x Nylon DIN Bar Mount Adapter |