ReliaGATE 10-05 Development Kit

Multi-service IoT Edge Gateway - Ultra Compact and Efficient



- **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.

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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		
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

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