ReliaGATE 10-05

Multi-service IoT Edge Gateway - Ultra Compact and Efficient

- **Small and Efficient**
- **IoT Ready**
- **Truly Industrial**
- **Internal Backup Battery**
- **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
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.

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EUROTECH

Ordering code: REGATE-10-05-XX

XX		- 21	- 22	- 23	- 24	- 26
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		802.11b,g,n / 4.0 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	RoHS3, REACH				
	Wi-Fi / BT Radio	CE (RED), FCC				
	Cellular Radio	CE (RED), FCC, PTCRB, AT&T				
	Ingress	IP40				
MECHANICAL	Enclosure	Material: ABS and Aluminium - Color: Blue and Aluminum				
	Dimensions	112x68x37mm (LxWxH) - Without SMA Connectors				

Software

SOFTWARE	OS	Eurotech Everyware Linux
	SDK	Yocto-based Eclipse Tooling

(§) UL, NRTL listing Factory Option.