ReliaGATE 10-05

- **ARM Powered**
- **IoT Ready**
- **Industrial Grade**
- **Internal Backup Battery**
- **Very Compact**
- **Open Platform**

EC   ESF

FEATURES

ARM Powered - Powered by NXP i.MX285 CPU: efficient performance for industrial applications 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

Industrial Grade - Wide operating temperature, wide range power supply with transient protection

Internal Backup Battery - Integrated UPS, providing safe shutdown and power for up to 30 minutes

Very Compact - Lightweight and with a volume of 112x68x37mm (LxWxH), is one of the smallest gateways available on the market

Open Platform - Features Everyware Software Framework (ESF), the IoT Java/OSGi based-middleware for IoT gateways that accelerates gateway development and enables remote management

Customizable - Personalization and full customization options are available, ranging from branding ("skins" and color) to deep HW/SW configurations

The ReliaGATE 10-05 is a compact and efficient IoT 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 36V 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 30 minutes of uptime and allows for a safe system shutdown in case of a 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 a genuine Oracle Java SE Embedded 8 Virtual Machine and Everyware Software Framework (ESF), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with Everyware Cloud (EC), Eurotech's IoT integration platform (separately available).

Used stand-alone, or in conjunction with EC, the ReliaGATE 10-05 provides a fast go-to-market solution for IoT projects of any size.

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ReliaGATE 10-05

Specifications

Ordering code: REGATE-10-05-XX					
XX		**- 31**	**- 32**	**- 33**	**- 34**
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), 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	CE (RED), FCC, PTCRB, AT&T			
	IoT Platform	Microsoft Azure Certified			
	Ingress	IP40			
MECHANICAL	**Enclosure**	Material: ABS and Aluminium - Color: Blue and Aluminum			
	Dimensions	112x68x37mm (LxWxH) - Without SMA Connectors			

SOFTWARE	
OS	Yocto Linux
SDK	Yocto-based Eclipse Tooling
IoT Framework	Oracle Java SE Embedded Version 8 - Everyware Software Framework (Java/OSGi)

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