ReliaGATE 20-25

Multi-service IoT Edge Gateway - Intel Atom, LTE Cat 4





- Reliable Performance
- Integrated Cellular
- Truly Industrial
- Field Protocol Support
- Cloud Certified
- Open Platform
- Customizable





Features

Reliable Performance - Powerful and efficient: single, dual and quad core Intel Atom E3800, soldered-down eMMC storage and ECC memory for additional protection

Integrated Cellular - Certified 3G/LTE cellular modems can be integrated. It also supports Eurotech ReliaCELL 10-20, the cellular module with global carrier precertifications

Truly Industrial - Extended operating temperature, a wide range power supply with surge and sag protection, isolated and protected DIO, protected USB and serial

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, AWS IoT Core and other Cloud services

Open Platform - Provides a Java/OSGi gateway middleware, to free the developer from proprietary solutions

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

Description

The ReliaGATE 20-25 is a high-performance, globally certified, Multi-service IoT Edge Gateway for industrial and lightly rugged applications.

It features up to four cores, soldered-down ECC RAM and storage, extended operating temperature support, wide range power supply, isolated and protected I/O interfaces, and customizable connectivity options.

The ReliaGATE 20-25 configuration options include GNSS and LTE connectivity, both integrated and through the ReliaCELL 10-20 family of 2G/3G/LTE external modems with global carrier precertifications.

The ReliaGATE 20-25 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 adds advanced security, diagnostics, provisioning and remote access. It supports ready-touse 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's IoT Integration Platform (separately available), enabling advanced diagnostics, provisioning, and full remote device access and management.

Used stand-alone, or in conjunction with EC, the ReliaGATE 20-25 provides a fast go-to-market solution for projects of any size.

The ReliaGATE 20-25 is AWS IoT Core Qualified, Microsoft Azure Certified and can be integrated with 3rd party cloud services.

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ReliaGATE 20-25





			Ordering	code: REGATE	-20-25-xy					
HARDWARE C	ONFIGURATION	-×2	-x3	-×4	- x5	- x6	-x7	-x8		
PROCESSOR	CPU	E3827, 1.75G	Hz, Dual Core	E3845, 1.91G	Hz, Quad Core	E3827, 1.75G	5GHz, Dual Core E3845, 1.9° Quad Co			
MEMORY	RAM	7-8 1333MH7 (1)11831-ECC)				4GB, 1333MHz (DDR3L-ECC)				
STORAGE	Embedded	8GB eMMC								
	SATA	1x SATA 2.0 (Internal Connector) – 1x 32GB mSATA (Included on -4y Variants)								
	Other	1x microSD Slot (User Accessible)								
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps - RJ45								
	USB	1x Host 3.0, 1x Host 2.0, 1x ReliaCELL (Noise and Surge Protected) - Type A								
	Serial	2x RS-232/RS-422/RS-485 (9 Wires, Noise and Surge Protected) on DB9 – 1x Serial Console TTL								
	CAN 2.0B	1x CAN bus with 5V (100mA) Power Out								
	Digital I/O	3x Digital Input 7 - 35VDC, 1KV Optoisolated – 3x Digital Output (40VDC), 20mA Sink								
	Video	1x Mini DisplayPort (Service Panel)								
	Audio	1x Line Stereo Line Out, 1x Stereo Mic In (Service Panel)								
EXPANSION	miniPCle Slots	Up to 3x Full/Half Size Mini PCIe (PCIe/USB/mSATA)								
	Cellular		Eurotech ReliaCELL 10-20 LTE Cat 4(EU) 2G/3G F							
RADIO INTERFACES	GPS	Eurotech ReliaCELL 10-20 - Factory Option: Integrated GNSS Intern				Internal GNSS	Eurotech ReliaCELL 10-20 - Factory Option: Integrated GNSS			
	Wi-Fi / BT	No	802.11a/b/g/n, BLE 4.0	No		802.11a/b/g/n, BLE 4.0				
OTHER	RTC	Yes (User Accessible Battery)								
	Ext. Watchdog	Yes								
	Sensors	Temperature, Accelerometer								
	LEDs	1x Power, 3x miniPCle Slot, 2x Programmable (Dual Color Green/Amber)								
	Buttons	1x Reset, 1x Programmable								
POWER	Input	7 - 35VDC (Nominal 24VDC), Surge and Sag Protection, Vehicle Ignition Input								
	Consumption	10V	V Idle	12W	/ Idle	10V	/ Idle	12W Idle		
ENVIRONMENT	Operating Temp	- 40 to +65°C								
	Storage Temp	- 40 to +85°C								
CERTIFICATIO NS	Regulatory	CE, FCC, ISED								
	Safety	EN 62368, UL 60950 (§)								
	Environmental	RoHS3, REACH								
	Wi-Fi / BT Radio	RED, FCC, ISED				RED				
	Cellular Radio	Eurotech ReliaCELL 10-20 Carrier Certifications RED								
	Ingress	IP30								
MECHANICAL	Enclosure	Material: Anodized Aluminium - Color: Aluminum								
	Dimensions	192x131x52mm (WxDxH)								

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	CONFIGURATION	-2y	-3y	-4y						
	OS	Eurotech Eve	Eurotech Everyware Linux							
	SDK	Yocto-based Eclips	Yocto-based Eclipse Tooling, Azul Java							
SOFTWARE	IoT Framework	-	Everyware Software Framework (Java/OSGi)	-						
	IoT Platform	AWS IoT Core Qual	AWS IoT Core Qualified, Microsoft Azure Certified, Everyware Cloud Native							

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(§) UL, NRTL listing Factory Option.

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