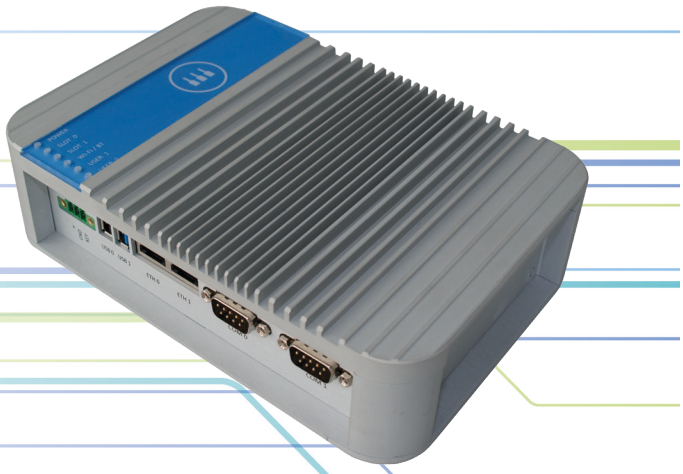
ReliaGATE 20-25

- Reliable Performance
- Integrated 3G/LTE Cellular
- Truly Industrial
- Field Protocol Support
- Cloud Certified
- Open Platform
- Customizable



EC ESF

FEATURES

Reliable Performance - Powerful and efficient: single, dual and quad core Intel Atom E38xx, soldered-down eMMC storage and ECC memory for additional protection

Integrated Cellular - Certified 3G/LTE cellular modems can be integrated. It also supports Eurotech's 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, Amazon Web Services IoT 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

The ReliaGATE 20-25 is a high-performance, globally certified, IoT 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 GPS 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 gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning and remote access. It supports ready-to-use 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.

The ReliaGATE 20-25 is Microsoft Azure certified and can also be integrated with 3rd party cloud services such as Amazon Web Services IoT.

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

ReliaGATE 20-25

Multi-service IoT Gateway

Specifications

Ordering code: REGATE-20-25-❑❑							
HARDWARE CONFIGURATION		- ❑1	- ❑2	- ❑3	- ❑4	- ❑5	- ❑8
PROCESSOR	**CPU**	E3815, 1.46GHz, Single Core	E3827, 1.75GHz, Dual Core		E3845, 1.91GHz, Quad Core		
MEMORY	**RAM**	2GB, 1067MHz, (DDR3L-ECC)	2GB, 1333MHz, (DDR3L-ECC)		4GB, 1333MHz, (DDR3L-ECC)		
STORAGE	**Embedded**	8GB eMMC					
	SATA	1x SATA 2.0 - Internal Connector 1x 32GB mSATA (Included on -4❑ 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) - 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					
	Audio	Factory Option					
EXPANSION	**miniPCIe Slots**	Up to 3x Full/Half Size Mini PCIe (PCIe/USB/mSATA)					
RADIO INTERFACES	**Cellular**	Eurotech ReliaCELL 10-20					LTE Cat 4 (EU) 3G Fallback
	GPS	Eurotech ReliaCELL 10-20 Factory Option: Integrated GPS					
	Wi-Fi / BT	No		b/g/n, BLE	No	b/g/n, BLE	
OTHER	**RTC**	Yes (User Accessible Battery)					
	Ext. Watchdog	Yes					
	EEPROM	256kbit					
	Sensors	Temperature, Accelerometer					
	LEDs	1x Power, 3x miniPCIe Slot, 2x Programmable (Dual Color Green/Amber)					
	Buttons	1x Reset, 1x Programmable					
POWER	**Input**	7 - 35VDC (Nominal 12VDC), Surge and Sag Protection, Vehicle Ignition Input					
	Consumption	7W Idle	10W Idle		12W Idle		
ENVIRONMENT	**Operating Temp**	- 20 to +60°C	- 40 to +65°C				
	Storage Temp	- 40 to +85°C					
CERTIFICATIONS	**Regulatory**	CE, FCC, ISED					
	Safety	EN 62368, UL§ 60950					
	Environmental	RoHS2; REACh					
	Wi-Fi / BT Radio	CE (RED), FCC					CE (RED)
	Cellular Radio	Eurotech ReliaCELL 10-20 Carrier Certifications					CE (RED)
	IoT Platform	Microsoft Azure Certified					
	Ingress	IP40					
MECHANICAL	**Enclosure**	Material: Anodized Aluminium - Color: Aluminum					
	Dimensions	192x131x52mm (WxDxH)					

Ordering code: REGATE-20-25-❑❑			
SOFTWARE CONFIGURATION		- 3❑	- 4❑
SOFTWARE	**OS**	Yocto Linux	Windows 10 IoT Enterprise
	SDK	Yocto-based Eclipse Tooling, Oracle Java SE	-
	IoT Framework	Everyware Software Framework (Java/OSGi)	-

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ETH_ReliaGATE 20-25_DS_EN_Rev 11_11/2017

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