



- Ready to Plug
- Ready to Code
- Ready to Connect
- Ready to Deploy



Features

Ready to Plug - Contains all the hardware needed to get started, including one ReliaGATE 20-25 and a complete set of cables and accessories

Ready to Code - Features Everyware Software Framework (ESF), the Java/OSGi based-middleware for IoT Edge Gateways that accelerates gateway application development

Ready to Connect - Includes a free trial account for Everyware Cloud (EC), the Eurotech IoT Integration Platform for device connectivity, data collection, and remote device management

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 20-25 Development Kit allows 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.

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, Wi-Fi / Bluetooth and a range of cellular options.

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 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.

ReliaGATE 20-25 Development Kit

Multi-service IoT Edge Gateway - Intel Atom E3800

Ordering code: REGTW-D2025-B00xy

HARDWARE CONFIGURATION		x3	x5
PROCESSOR	CPU	E3827, 1.75GHz, Dual Core	E3845, 1.91GHz, Quad Core
MEMORY	RAM	2GB, 1333MHz (DDR3L-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) - DB9, 1x Serial Console TTL	
	CAN 2.0B	2x 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)	
EXPANSION	miniPCIe Slots	Up to 3x Full/Half Size Mini PCIe (PCIe/USB/mSATA)	
RADIO INTERFACES	Cellular	Eurotech ReliaCELL 10-20 Option (Not Included)	
	GPS	Eurotech ReliaCELL 10-20 Option (Not Included)	
	Wi-Fi / BT	b/g/n, BLE	
	OTHER	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 24VDC), Surge and Sag Protection, Vehicle Ignition Input	
	Consumption	10W Idle	12W Idle

For more specifications and certifications, please check the ReliaGATE 20-25 datasheet.

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SOFTWARE CONFIGURATION		2y	3y	4y
SOFTWARE	OS	Eurotech Everyware Linux		Windows 10 IoT Enterprise
	SDK	Yocto-based Eclipse Tooling, Azul Java		-
	IoT Framework	-	Everyware Software Framework (Java)	-

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INCLUDED ACCESSORIES		3y	4y
I/O INTERFACES	Ethernet	1x RJ45 Male Cable	
	Serial	2x Serial Cable (RS-232/RS-422/RS-485 - 9 Wires - RS-232 Null Modem Default Pinout) with DB9 Screw Terminal Female Connector (for Fast Pinout Switching: RS-232/RS-422/RS-485) – 1x USB to Serial TTL Cable Converter (Debug Port)	
	CAN 2.0B	1x CAN Bus Cable with DB9 Male Connector wired on a 16 P Terminal Block	-
	Digital I/O	1x Digital I/O Cable (3x Digital IN + 3x Digital OUT) wired on a 16 P Terminal Block	-
RADIO	Wi-Fi / BT	1x Dipole Wi-Fi / Bluetooth (2.4/5GHz) Antenna with RP-SMA Connector	
OTHER	Adapter	1x DB9 Male to Male Gender Changer, 1x DB9 Female to Female Gender Changer, 1x Breakaway Male to Male Pin Strip (40P) - Gender Changer for Digital I/O Cable	
	Documentation	1x Quick Start Guide, 1x Everyware Cloud Setup Guide	-
POWER	AC-DC PSU	1x 24VDC (40W) Power Supply Unit with Terminal Block	
	Blades	3x Power Blades for Wall Mount Adapter (US, JP, EU, UK)	

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