ReliaGATE 15A-12

BUDGET GATEWAY - i.MX9 - LTE - Carrier Certified - Wi-Fi/BT - IEC 62443-4-2

- **Industrial IoT ARM Gateway**
- **IEC 62443-4-2 Cybersecurity certified**
- **Intuitive Cloud Provisioning and Device Management**
- **Global cellular deployment for worldwide connectivity**
- **Open Platform and cloud certified**
- **Compact, Fanless, DIN Rail optimised**

Features

MULTI-SERVICE IOT GATEWAY : IoT Edge Gateway designed to deliver LTE connectivity to industrial and lightly rugged applications

ARM POWERED : Powered by NXP i.MX91/93 single/dual core Cortex A55 CPU with integrated EdgeLock secure enclave

EVERYWARE GREENEDGE : With Everyware GreenEdge, the ReliaGATE 15A-12 is a fully integrated gateway with Zero-Touch provisioning, AWS IoT Greengrass v2, Eurotech's Everyware Software Framework for IIoT equipment configuration and edge computing, and Everyware Cloud for full edge (and asset) lifecycle management

BEST IN CLASS CYBERSECURITY : ISA/ IEC 62443-4-1/-4-2 SL2 (Hardware plus Software) certified, always on and power independent antitampering monitor and logger, TPM 2.0 and full hardware hardening

EASY TO PROGRAM : Build your first pilot IIoT project in a snap: from when you get the Everyware GreenEdge gateway on your desk, you need 30 minutes to gen onboard on Everyware Cloud and easily provision your gateway on your AWS IoT environment. Starting building your first edge applications like a store-and-forward datalogger in 10 minutes

OPEN PLATFORM : Provides a Java/OSGi gateway middleware, to free the developer from proprietary solutions

CLOUD CERTIFIED : Seamless integration with Eurotech Everyware Cloud, AWS IoT Core and other Cloud services

Description

The ReliaGate 15A-12 is purpose-built for industrial environments. It is powered by NXP i.MX91/93 single/dual core and has the ability to seamlessly connect to global LTE networks (5G Ready).

The ReliaGATE 15A-12 offers best in class Cybersecurity: it leads the market with ISA/IEC 62443-4-1/4-2 SL2. Protection starts at the hardware level, with support for EdgeLock, Secure Boot and an always-on physical antitampering monitor/logger that is active even when the system is removed from the power. For most demanding customers, special production-only images can be configured with full hardware hardening (interface disabling) to further reduce the attack surface.

Based on the NXP i.MX 91/93 Cortex-A55 processor, with up to 2GB of RAM, 32GB of eMMC, the ReliaGATE 15A-12 is a low power, compact gateway suitable for lightly rugged use cases; it supports a 9 to 30VDC power supply with transient protection, up to two serial ports, one noise and surge protected USB port, up to two CAN-FD/2.0B protected and isolated interfaces and three analog inputs. The ReliaGATE 15A-12 features a wide range of connectivity capabilities: it integrates a carrier certified global LTE Cat 1-bis modem, dual SIM support (1x SIM and 1x eSIM), Wi-Fi 5/BLE 5.0, and up two Gigabit Ethernet ports.

The ReliaGATE 15A-12 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 offers ready-to-use field protocols, 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 15A-12 can be configured with Everyware GreenEdge, making it a fully integrated industrial IoT Gateway.

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The ReliaGATE 15A-12 offers Zero-Touch provisioning and a fully trusted chain from manufacturing to deployment, AWS IoT Greengrass v2, and ESF+EC, providing a few-clicks onboarding experience and immediate deployment in most countries, transforming device management and IoT operations into a smooth workflow.

In addition to its technical advantages, Everyware GreenEdge comes with a unified billing system for all software and services related costs through the Amazon Marketplace. This simplifies the procurement process, making it easier for customers to access and manage the solution while also benefiting from AWS's trusted billing infrastructure.

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Ordering Code: REGATE-15A-12-xx-yy				
Hardware Configuration (-xx)		-02	-04	-08
PROCESSOR	CPU	i.MX 91; Cortex-A55 @ 1.4GHz		i.MX 93; 2 x Cortex-A55 @ 1.7GHz + 1x Cortex-M33 @ 250MHz
MEMORY	RAM	2GB LPDDR4		
STORAGE	Embedded	32GB eMMC		
I/O INTERFACES	Ethernet	1x 10/100/1000 Mbps; RJ-45 (1x TSN)	2x 10/100/1000 Mbps RJ-45 (1x TSN)	
	USB	-	1x Host 2.0 Type A (Noise and Surge Protected)	
	Serial	1x RS-232/RS-422/RS-485 Protected (5-wire), Software-selectable Mode and Termination		1x RS-232 (5-wire)/RS-422 (Full/Half Duplex)/RS-485 (Full/Half Duplex) Protected + 1x RS-485/RS-422 (Half Duplex) Isolated and Protected (3-wire); Software-selectable Mode and Termination
	CANBus	-		1x CAN-FD, Protected and Isolated, with SW Termination and Fail-safe Resistors
	Digital Input	1x Remote Power Control IN, Contact Closure + 1x Digital IN, Isolated, 0-36VDC		1x Remote Power Control IN, Contact Closure + 1x Digital IN, Isolated, 0-36VDC + 4x Digital IN, Isolated, IEC 61131-2 Type 2
	Digital Output	-		1x Isolated Output, 40VAC/DC, 500mA Sink
	Analog I/O	-		3x Analog Inputs non-Isolated (12-bit, 0-36VDC)
RADIO INTERFACES	Cellular	Global 4G LTE Cat 1-bis; Factory Options: 4G LTE Cat 4; 5G RedCap		
	SIM/eSIM	1x SIM and 1x eSIM		
	GNSS	-	Yes (Via Cellular)	
	Wi-Fi/BT	-	Wi-Fi 5 / BT 5.0	
	Antennas	1x SMA (LTE)	1x SMA (LTE), 1x SMA (GNSS), 1x RP-SMA (Wi-Fi/BT)	
OTHER	RTC	Supercap-backed RTC		
	Ext. Watchdog	Discrete External Watchdog		
	EEPROM	256Kbit EEPROM		
	Sensors	Temperature Sensor		
	LED	1x Power (Blue), 1x Cellular (Green), 4x User Configurable (2x Green, 1x Amber, 1x Red)		
	Buttons	1x Reset Button and 1x Programmable Button		
CYBER (HW)	Secure Element	EdgeLock; Factory Option: TPM 2.0		
	Anti-Tamper	Always-on Physical Tamper Monitoring, Reporting & Event Logging with Time-stamping		
	Architecture	Secure Boot; ARM TrustZone Architecture; ISA/IEC 62443-4-2 SL2*		
POWER	Input	Nominal: 12 or 24 VDC; Range: 9-30 Vdc with Transient Protection		
	Consumption	<1W Idle (2W Typical)	<1.5W Idle (2.5W Typical)	<2W Idle (3W Typical)
ENVIRONMENT	Operating Temp.	-40 to +75°C, Fanless, Vent-free		
	Storage Temp.	-40 to +85°C		
	Humidity	RH 5...95% Operating Non-Condensing (40°C). Factory Option: Coating Options		

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CERTIFICATIONS	Regulatory	CE, FCC*, ISED/IC*, RCM Mark*; Designed for Compliance with ENACOM, ACMA, ANATEL, IFETEL, WPC/TECC
	Safety	CB, IEC/ANSI-UL 62368-1, c-UL-us Listed*
	Cybersecurity	EN 18031-1 (RED-DA) - Off-the-shelf Compliance
	Radio	RED, FCC*, GCF*, PTCRB*
	Cellular Carriers	AT&T*, Verizon*, T-Mobile (§), Bell*, Telus*, Rogers
	Environmental	ROHS3, REACH
	Ingress	IP40
MECHANICAL	Enclosure	Material: ABS - Color: Dark Grey
	Dimensions	100 x 38 x 110 mm (D x W x H) - Excluding Connectors, DIN Bar Mounting Bracket

* Certification ongoing or planned

§ Contact Eurotech

Ordering Code: REGATE-15A-12-xx-yy			
Software Configuration (-yy)		-09	-10
OS	Eurotech Everyware Linux	Yes	
IOT FRAMEWORK	Everyware Software Framework (ESF)	Yes	
SUITE AND SERVICES	Everyware GreenEdge (EGE)	-	Yes
SOFTWARE HARDENING	Hardening	Yes	
CERTIFICATIONS	Cybersecurity	ISASecure/IEC 62443-4-1/-4-2 SL2 Host*	

* additional Professional Service might be required depending on customer requirements

Non-hardened versions are available – Contact Eurotech

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