ReliaGATE 10-12

Multi-service IoT Edge Gateway - TI AM335x, LTE Cat 1

Features

ARM Powered - Powered by TI AM335x CPU: optimum performance for intensive workloads at just 2W

IoT Ready - Breadth of connectivity options: carrier certified LTE Cat 1 cellular modems for multiple geographies, Wi-Fi, BLE, Fast Ethernet and Fieldbus interfaces, including CAN bus ports, optoisolated digital I/Os, protected USB and serial ports Industrial Grade - Wide operating temperature, wide range power supply with transient protection

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 10-12 is a Multi-service IoT Edge Gateway designed to deliver LTE connectivity (with 3G fallback) to industrial applications.

Based on the TI AM335x Cortex-A8 (Sitara) processor family, with 1GB of RAM, 8GB of eMMC and user-accessible MicroSD and dual Micro-SIM slots, the ReliaGATE 10-12 is a low power gateway suitable for demanding use cases: it supports a 9 to 30V power supply with transient protection and ignition sense, two protected serial ports: one RS-422/RS-485 and one RS-232/RS-485, two CAN bus interfaces, three noise and surge protected USB ports, and four isolated digital interfaces.

The ReliaGATE 10-12 features a wide range of connectivity capabilities: it integrates an internal LTE Cat 1 cellular modem with dual Micro-SIM support, Wi-Fi, Bluetooth, two Fast Ethernet ports and three Sensors: Temperature, 3-axis Gyroscope and a 3-axis Accelerometer; an optional internal GPS provides precise geolocation capabilities.

Expansion options include the ReliaCELL 10-20 family, consisting of external, rugged cellular modules for global use that are certified by leading carriers. An expansion connector allows adding extra features with side modules, such as the ReliaWAN 10-12, a LoRa Gateway unit, or the RelialO 10-12, which provides analog input and more DI/O ports.

The ReliaGATE 10-12 is equipped with a TPM 2.0 technology which provides standard cutting-edge security features that protect the system integrity and authenticity against unauthorized manipulations.

The ReliaGATE 10-12 is enriched with Everyware Software Framework (ESF), Eurotech's IoT Edge Framework, that supports ready-touse field protocols (including Modbus, OPC-UA, S7), MQTT connectivity, a web-based visual data flow programming (ESF Wires) and deep configuration. ESF is a commercial, enterprise-ready edition of Eclipse Kura. 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 10-12 is AWS IOT Core Qualified, Microsoft Azure Certified and can be integrated with 3rd party cloud services.



ARM® Powered

Industrial Grade

 Cloud Certified Open Platform Customizable

Field Protocol Support

• Internal LTE Cat 1 (NA, EU, JP)





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Software		
SOFTWARE	OS	Eurotech Everyware Linux
	SDK	Yocto-based Eclipse Tooling, Azul Java
	IoT Framework	Everyware Software Framework (Java/OSGi)
	IoT Platform	AWS IoT Core Qualified, Microsoft Azure Certified, Everyware Cloud Native

§ UL, NRTL listing Factory Option.

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