

ReliaGATE 10-12

- ARM Powered
- Internal LTE Cat 1 (NA, EU, JP)
- Industrial Grade
- Field Protocol Support
- Cloud Certified
- Open Platform
- Customizable



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, 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 10-12 is a IoT Edge Gateway that has been designed to deliver LTE connectivity (with 3G fallback) to industrial and lightly rugged applications.

Based on the TI AM335x Cortex-A8 (Sitara) processor family, with 1GB of RAM, 4GB 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 6 to 36V power supply with transient protection and vehicle ignition sense, two protected RS-232/RS-485 serial ports, 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, and two Fast Ethernet ports; 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 ReliaLORA 10-12, a LoRa Gateway unit, or the ReliaIO 10-12, which provides analog input and more DI/O ports.

The ReliaGATE 10-12 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 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 10-12 is Microsoft Azure certified and can also be integrated with 3rd party cloud services such as Amazon Web Services IoT.

Specifications

Ordering code: REGATE-10-12-XX								
XX	- 32	- 33	- 34	- 35	- 36	- 37		
PROCESSOR	CPU	TI AM3352 1GHz, 1 Core						
MEMORY	RAM	1GB DDR3						
STORAGE	Embedded	4GB eMMC						
	Other	1x microSD Slot (User Accessible)						
I/O INTERFACES	Ethernet	2x 10/100Mbps - RJ45						
	USB	3x Host 2.0 (Noise and Surge Protected) - Type A						
	Serial	2x RS-232/RS-485 (Surge Protected, RS-485 Termination and Fail-safe Resistors), 1x Serial Console TTL						
	CAN 2.0B	2x CAN bus with 5V (100mA) Power Out						
	Digital I/O	2x Digital Input 36V, 1KV Optoisolated - 2x Digital Output (40VAC/DC), 500mA Sink, 1KHz Max Switching						
	Exp. Connector	Yes, for Side Expansion Modules (ReliaO 10-12, ReliaLORA 10-12)						
RADIO INTERFACES	Internal Cellular	No	LTE Cat 1 (NA) 3G Fallback	LTE Cat 1 (EU) 2G Fallback	LTE Cat 1 (NA) 3G Fallback	LTE Cat 1 (EU) 2G Fallback	LTE Cat 1 (JP)	
	External Cellular	Optional Accessory: ReliaCELL 10-20 (3G/4G)						
	GPS	Factory Option: Internal (72 channels GPS, Galileo, GLONASS, BeiDou) Optional Accessory: External ReliaCELL 10-20 3G						
	Wi-Fi / BT	a/b/g/n, BLE 4.2	No			a/b/g/n, BLE 4.2		
	Antennas (External)	2x RP-SMA Wi-Fi/BT	2x SMA Cellular			2x SMA Cellular 2x RP-SMA Wi-Fi/BT		
OTHER	RTC	Yes (User Accessible Battery)						
	Ext. Watchdog	Yes						
	TPM	Factory Option						
	Sensors	Temperature, Accelerometer						
	LEDs	1x Power, 1x Cellular, 4x Programmable						
	Buttons	1x Reset, 1x Programmable						
	SIM Slot	No	2x Micro-SIM (User Accessible)					
POWER	Input	6-36VDC, with Transient Protection, Vehicle Ignition Sense						
	Consumption	2W Typ. (15W Max.)						
ENVIRONMENT	Operating Temp	- 30 to +70°C						
	Storage Temp	- 40 to +85°C						
CERTIFICATIONS	Regulatory	FCC, ISED, CE	FCC, ISED	CE	FCC, ISED	RED	JATE, TELEC	
	Safety	EN 62368, UL [®] 60950						
	Environmental	RoHS2, REACH						
	Wi-Fi / BT Radio	FCC, ISED, RED	FCC, ISED	RED	FCC, ISED	RED	JATE, TELEC	
	Cellular Radio	No	FCC, ISED, PTCRB, AT&T, Verizon	RED	FCC, ISED, PTCRB, AT&T, Verizon	RED	JATE, TELEC, NTT DoCoMo	
	IoT Platform	Microsoft Azure Certified						
	Ingress	IP40						
MECHANICAL	Enclosure	Material: ABS - Color: Aluminum						
	Dimensions	139x98x44mm (LxWxH) - With SMA Connectors, Excluding Mounting Bracket						
SOFTWARE								
OS	Yocto Linux							
SDK	Yocto-based Eclipse Tooling							
IoT Framework	Oracle Java SE Embedded Version 8 - Everyware Software Framework (Java/OSGi)							

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