



- 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 10-12 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 10-12 Development Kit allows for 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.

Based on the TI AM335x Cortex-A8 (Sitara) processor family, with 1 GB 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, and two Fast Ethernet 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 AWS IoT Core Qualified, Microsoft Azure Certified and can be integrated with 3rd party cloud services.

### Ordering code: REGATE-10-12-XX-DK01

| XX                      |                     | - 65   | - 66                           | - 67           |
|-------------------------|---------------------|--|--------------------------------|----------------|
| <b>PROCESSOR</b>        | CPU                 | TI AM3352 1GHz, 1 Core   |                                |                |
| <b>MEMORY</b>           | RAM                 | 1GB DDR3   |                                |                |
| <b>STORAGE</b>          | Embedded            | 8GB eMMC   |                                |                |
|                         | Other               | 1x microSD Slot (User Accessible)  |                                |                |
| <b>I/O INTERFACES</b>   | Ethernet            | 2x 10/100Mbps - RJ45   |                                |                |
|                         | USB                 | 3x Host 2.0 (Noise and Surge Protected) - Type A   |                                |                |
|                         | Serial              | 1x RS-422/RS-485 protected and isolated, 1x RS-232/RS-485 (Surge Protected, RS-485 Termination and Fail-safe Resistors), 1x TTL Serial Console |                                |                |
|                         | 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 Eurotech Side Expansion Modules (ReliaO 10-12, ReliaWAN 10-12)  |                                |                |
| <b>RADIO INTERFACES</b> | Internal Cellular   | LTE Cat 1 (NA), 3G Fallback  | LTE Cat 1 (EU), 2G/3G Fallback | LTE Cat 1 (JP) |
|                         | Wi-Fi / BT          | a/b/g/n, BLE 4.2   |                                |                |
|                         | Antennas (External) | 2x SMA Cellular, 2x RSMA Wi-Fi/BT  |                                |                |
| <b>OTHER</b>            | RTC                 | Yes (User Accessible Battery)  |                                |                |
|                         | Sensors             | Temperature, 3-axis digital Accelerometer, 3-axis digital Gyroscope  |                                |                |
|                         | LEDs                | 1x Power, 1x Cellular, 4x Programmable   |                                |                |
|                         | Buttons             | 1x Reset, 1x Programmable  |                                |                |
|                         | SIM Slot            | 2x microSIM (User Accessible)  |                                |                |
| <b>POWER</b>            | Input               | Nominal: 12 or 24 VDC; Range: 9 to 30 VDC with transient protection  |                                |                |
|                         | Consumption         | 2W Idle (15W Max)  |                                |                |

For more specifications and certifications, please check the ReliaGATE 10-12 datasheet.

### Included Software

|                 |               |  |
|-----------------|---------------|--|
| <b>SOFTWARE</b> | OS            | Eurotech Everyware Linux                 |
|                 | SDK           | Yocto-based Eclipse Tooling, Azul Java   |
|                 | IoT Framework | Everyware Software Framework (Java/OSGi) |

### Included Accessories

| Included Accessories  |               |   |
|-----------------------|---------------|---|
| <b>I/O INTERFACES</b> | Ethernet      | 1x RJ45 Male Cable  |
|                       | Serial        | 1x Serial Cable (2x RS-232/RS-485 Interfaces - 3 Wires Each - RS-232 Default Pinout) with 2x DB9 Screw Terminal Male Connectors (for Fast Pinout Switching: RS-232/RS-485) Wired on a 10P Terminal Block with 2P for Each Cable Reserved for the Termination Resistors – 1x 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 (2x CAN bus Interfaces - 4 Wires Each) with DB9 Male Connector wired on a 8P Terminal Block  |
|                       | Digital I/O   | 1x Digital I/O Cable (2x Digital IN + 2x Digital OUT - 8 Wires) wired on a 8P Terminal Block  |
| <b>RADIO</b>          | Antennas      | 1x 5in1 Adhesive Mount Antenna providing: 2*LTE MIMO (Main + Diversity, on SMA connectors), 2*Wi-Fi/Bluetooth (2.4GHz Wi-Fi/BT + 5GHz Wi-Fi, on RP-SMA connectors), 1*GNSS (on SMA connector)   |
| <b>OTHER</b>          | Adapter       | 1x DB9 Female to Female Gender Changer – 1x DB9 Male to Male Gender Changer – 1x Breakaway Male to Male Pin Strip (40P), Gender Changer for Digital I/O Cable   |
|                       | Resistor      | 2x 120 Ohm Termination Resistors for RS-485 Interface   |
|                       | Documentation | 1x Quick Start Guide, 1x Everware Cloud Setup Guide   |
| <b>POWER</b>          | AC-DC PSU     | 1x 24VDC (24W) Power Supply Unit with Terminal Block (Only for -65, -66 versions)   |
|                       | Blades        | 3x Power Blades for Wall Mount Adapter (US, JP, EU, UK) (Only for -65, -66 versions)  |
| <b>MECHANICAL</b>     | Mounting      | 1x Aluminum Wall Mount Bracket, 1x Nylon DIN Bar Mount Adapter  |



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