



- 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 10-11 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 10-11 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 processor family, with 512MB of RAM and 4GB of eMMC, the ReliaGATE 10-11 is a low power Edge Gateway suitable for industrial and automotive applications: it supports a 9 to 36V power supply with transient protection and vehicle ignition sense, two protected RS-232/485 serial ports, two CAN bus interfaces, and much more.

The ReliaGATE 10-11 features a wide range of connectivity capabilities: it integrates a global cellular modem with GPS, Wi-Fi, Bluetooth, and two Fast Ethernet ports.

The ReliaGATE 10-11 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 10-11 is Microsoft Azure certified and can also be integrated with 3rd party cloud services such as Amazon Web Services IoT.

Ordering code: REGTW-D1011-B00xx

| XX | | 33 | 36 |
|-------------------------|-------------|--|--|
| PROCESSOR | CPU | TI AM3352 800MHz, 1 Core | |
| MEMORY | RAM | 512MB DDR3 | |
| STORAGE | Embedded | 4GB eMMC | |
| | Other | 1x microSD Slot (User Accessible) | |
| I/O INTERFACES | Ethernet | 2x 10/100Mbps - RJ45 | |
| | USB | 2x Host 2.0 (Noise and Surge Protected) - Type A | 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 In 5V (TTL), 1KV Optoisolated - 2x Digital Out (40VDC), 30mA Sink | |
| RADIO INTERFACES | Cellular | 3G Global | ReliaCELL 10-20 Option (Not Included) |
| | GPS | Integrated on Cellular Module | ReliaCELL 10-20 Option (Not Included) |
| | Wi-Fi / BT | b/g/n, BLE | |
| OTHER | RTC | Yes (User Accessible Battery) | |
| | Sensors | Temperature, Accelerometer | |
| | LEDs | 1x Power, 1x Cellular, 4x Programmable | 1x Power, 4x Programmable |
| | Buttons | 1x Reset, 1x Programmable | |
| | SIM Slot | 1x microSIM (User Accessible) | |
| POWER | Input | 9-36VDC, with Transient Protection, Vehicle Ignition Sense | |

For more specifications and certifications, please check the ReliaGATE 10-11 datasheet.

Included Software

| | | |
|-----------------|---------------|--|
| SOFTWARE | OS | Eurotech Everyware Linux |
| | SDK | Yocto-based Eclipse Tooling, Azul Java |
| | IoT Framework | Oracle Java SE Embedded Version 8 - Everyware Software Framework (Java/OSGi) |

Included Accessories

| | | |
|-----------------------|---------------|--|
| I/O INTERFACES | 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 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 |
| RADIO | Cellular | 1x Pentaband (GSM/GPRS/UMTS) Antenna with SMA Connector |
| | GPS | 1x Amplified GPS Antenna with SMA Connector |
| | Wi-Fi / BT | 1x Dipole Wi-Fi / Bluetooth (2.4/5GHz) Antenna with RP-SMA Connector |
| OTHER | Adapter | 1x DB9 Female to Female 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 Everyware Cloud Setup Guide |
| POWER | AC-DC PSU | 1x 24VDC (24W) Power Supply Unit with Terminal Block |
| | Blades | 3x Power Blades for Wall Mount Adapter (US, JP, EU, UK) |
| MECHANICAL | Mounting | 1x Aluminum Wall Mount Bracket, 1x Nylon DIN Bar Mount Adapter |

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