**Features**

**ARM Powered**: Powered by NXP i.MX 8M Mini CPU: quad core Cortex A53 performance for intensive workloads

**For Global Cellular Deployments**: Carrier certified LTE and ready to deploy in most countries, Wi-Fi, BLE, Gigabit Ethernet and Fieldbus interfaces, supporting Modbus, S7, OPC UA, and many more protocols

**Best in Class Cybersecurity**: IEC 62443-4-1/-4-2 and PSA Level 1 certified, California SB-327 compliant, always on and power independent antitamper monitor and logger, TPM 2.0 and full hardware hardening

**Industrial Grade**: Extended operating temperature, wide range power supply with transient protection, optoisolated analog in and digital I/Os, protected USB, protected and isolated serial ports, DIN bar and wall mount

**Expandable**: Add LoRa, more DI/O, analog inputs, and custom peripherals with side expansion modules

**Easy to Program**: Full support for classic and visual programming, plus Everyware Software Framework (ESF), the IoT Java/OSGi based-middleware for IoT gateways that accelerates user application development

**Open, No lock-in**: Based on open standards and Cloud agnostic, it can be integrated with all major platform and service providers

**Customizable**: Can be personalized and even fully customized, with options ranging from branding (“skins” and color) to deep HW/SW changes

**Description**

The ReliaGATE 10-14 is an industrial, highly secure Edge Gateway that is easy to program: it supports classic and visual programming and comes with a rich and expandable IoT programming Framework. It is open and supports all major Cloud providers and services. It is suitable for immediate deployment in most countries, thanks to carrier certified LTE with 2G/3G backup connectivity, with options to expand the geographic coverage to a truly global scale.

The ReliaGATE 10-14 offers best in class Cybersecurity: it leads the market with IEC 62443-4-1/-4-2 and PSA Level 1 certification; it is also compliant with California SB-327 password law. Protection starts at the hardware level, with full support for TPM 2.0, Secure Boot and an always-on physical antitampering monitor/logger that is active even when the system is removed from 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 8M Mini Cortex-A53 quad core processor, with up to 4GB of RAM, up to 32GB of eMMC and a user-accessible microSD slot, the ReliaGATE 10-14 is a low power gateway suitable for lightly rugged use cases: it supports a 9 to 30VDC power supply with transient protection, Display Port video output, two protected and isolated RS-232/RS-422/RS-485 serial ports, two noise and surge protected USB ports, six optoisolated digital and two isolated analog interfaces. The ReliaGATE 10-14 features a wide range of connectivity capabilities: it integrates a carrier certified LTE Cat 1/4 cellular modem with dual SIM support, Wi-Fi, Bluetooth 5/BLE, and two Gigabit Ethernet ports; an internal GNSS provides precise geolocation capabilities. Expansion options allow adding extra features with side modules, such as the ReliaWAN 10-12, a LoRa Gateway unit, or the ReliaIO 10-12, which provides analog input and more DI/O ports.

The ReliaGATE 10-14 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.

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www.eurotech.com
## ReliaGATE 10-14

Multi-service IoT Edge Gateway - NXP i.MX 8M, LTE Cat 1/4

### Ordering code: REGATE-10-14-xx

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#### PROCESSOR
- **CPU**: i.MX 8M Mini Quad Cortex-A53 1.6 GHz
- **GPU**: 2D and 3D Acceleration

#### MEMORY
- **RAM**: 2GB (Up to 4GB LPDDR4)
- **Embedded**: 16GB (Up to 32GB eMMC)
- **Additional**: Micro SD Slot (User Accessible)

#### STORAGE
- **Ethernet**: 2x 10/100/1000 - RJ45
- **USB 2.0**: 2x Host 2.0 (Noise and Surge Protected) - Type A
- **Serial**: 2x RS-232/RS422/RS-485 protected and isolated (5 wires), 1x Serial Console TTL
- **Digital I/O**: 4x Digital Inputs Optoisolated, 2x Digital Outputs Optoisolated
- **Analog I/O**: 2x Analog Inputs Isolated (11-bit, 0-36VDC)
- **Video Out**: 1x Video Output (Display Port)

#### I/O INTERFACES
- **Internal Cellular**: No
- **LTE Cat 1 (NA)**
- **LTE Cat 1 (EU)**
- **LTE Cat 1 (AP)**
- **LTE Cat 1 (CN)**
- **GNSS**: No
- **GPS, Glonass, Beidou, Galileo, QZSS**
- **Wi-Fi/BT**: 802.11 a/b/g/n/ac (2.4GHz, 5GHz) - BLE5 (2.4GHz)
- **Ext. Antennas**: 1x RP-SMA Wi-Fi/BT, 2x SMA Cellular, 1x RP-SMA Wi-Fi/Bluetooth, 1x SMA GNSS

#### RADIO INTERFACES
- **RTC**: Yes (SuperCAP Backup)
- **Ext. Watchdog**: Yes
- **EEPROM**: 256 Kbit
- **TPM**: TPM 2.0
- **Anti-Tamper**: Yes (2x Switches: Product Enclosure and Service Panel, Event Logging with Time Stamping)
- **Temp. Sensor**: Yes
- **Accelerometer**: 3D Accelerometer / 3D Gyroscope
- **LED**: 1x Power Blue, 1x Cellular activity Green, 4x User Configurable (2x Green, 2x Amber)
- **Buttons**: 1x Reset Button and 1x Programmable Button
- **SIM Slot**: No
- **2x miniSIM (User Accessible)**

#### EXPANSIONS
- **Connector**: Expansion Connector compatible with ReliaIO 10-12 and ReliaWAN 10-12

#### POWER
- **Input**: Nominal: 12 or 24 VDC; Range: 9 to 30 VDC with Transient Protection, Ignition Key Sense
- **Consumption**: 2.5W Idle (5W Typ.)

#### ENVIRONMENT
- **Operating Temp.**: -30 to +70 °C
- **Storage Temp.**: -40 to +85 °C
- **Humidity**: RH 5...95% Operating Non Condensing (40°C)
- **Cybersecurity**: Secure Boot, TrustZone Architecture, PSA Level 1, California SB-327, Always-on Antitamper Monitor, TPM 2.0, IEC 62443-4-1/-4-2 - Hardened Production-only Images
- **IoT Platform**: Azure IoT Certified, AWS Certified, Eurotech Everyware Cloud Native
- **Regulatory**: CE, FCC, ISED, NAL, SRRC, JATE/TELEC
- **Safety**: FCC, ISED
- **Vertical**: JATE, TELEC
- **Environmental**: NAL, SRRC
- **FCC, ISED**: CE
- **JATE, TELEC**: NAL, SRRC

#### CERTIFICATIONS
- **Safety**: CB, EN 62368, UL 62368-1 (UL Mark)
- **Vertical**: E-Mark, IEC 60601-1-2
- **Environmental**: ROHS3, REACH
- **Wi-Fi/BLE Radio**: RED, FCC, ISED, JATE/TELEC
- **Cellular Radio**: FCC, ISED, RED, JATE, TELEC, NAL, SRRC
- **Cellular Radio**: PTCRB, AT&T, Verizon
- **Ingress**: IP40

#### MECHANICAL
- **Enclosure**: Material: Aluminium/Magnesium Alloy - Color: Aluminium
- **Dimensions**: 107x85x46mm (LxWxH) - Excluding Connectors, DIN Bar Mounting Bracket

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## SOFTWARE

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<td>OS</td>
<td>Eurotech Everyware Linux</td>
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<tr>
<td>SDK</td>
<td>Yocto-based Eclipse Tooling, Azul Java</td>
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<tr>
<td>IoT Framework</td>
<td>Everyware Software Framework (Java/OSGi)</td>
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ReliaGATE 10-14
Multi-service IoT Edge Gateway - NXP i.MX 8M, LTE Cat 1/4