



- Integrated 3G Cellular
- Wi-Fi, GPS and Zigbee Options
- Truly Industrial
- IoT Ready
- Ready to Deploy
- Open Platform
- Cloud Ready

Features

Connected - With integrated support for Cellular, Wi-Fi, GPS, and 802.15.4/Zigbee, the ReliaGATE 20-11 provides a powerful combination of interfaces for a broad range of communication connectivity applications.

Truly Industrial - Extended temperature operation and protected power supply give industrial strength to the ReliaGATE 20-11.

IoT Ready - Ideally suited for IoT applications to connect sensors, actuators and devices to the business enterprise.

Ready to Deploy - Includes a powerful network routing software application that provides simple web based configuration tool to deploy for IoT and network applications.

Open Platform - Provides a Java/OSGi gateway middleware, to free the developer from proprietary solutions

Cloud Ready - Enjoy the benefits of the Everyware Cloud (EC) end-to-end solution by collecting, controlling, transporting, and analyzing data from the field, regardless of how big your domain is; whether it is a building, a campus, a city, a country or the world.

Description

The ReliaGATE 20-11 is a ready-to-deploy industrial grade Multi-service IoT Edge Gateway that enables communications, computation power, simplified application deployment and IoT platform integration.

The ReliaGATE 20-11 provides a flexible communication architecture that includes a 2G/3G cellular, Wi-Fi, 802.15.4/Zigbee and GPS interfaces. It offers connectivity to a wide range of sensors and edge devices and makes it easy to deliver the data to business applications.

The ReliaGATE 20-11 also includes interfaces for wired connectivity such as Gigabit Ethernet, up to two serial ports and two USB ports.

The ReliaGATE 20-11 is simple to manage and delivers out-of-the-box connectivity and intuitive configuration of the routing parameters thanks to a web GUI and over-the-air options.

The ReliaGATE 20-11 is [Everyware Software Framework \(ESF\)](#) ready. ESF is a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/ OSGi middleware for IoT gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning and remote access. It 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.

Specifications

PROCESSOR	CPU	Atom E620 (T) 600MHz – E640(T) 1GHz – E660(T) 1.3GHz – E680(T) 1.6GHz
MEMORY	RAM	512MB 800MHz DDR (up to 2GB Optional)
STORAGE	SATA	8GB Half SATA SSD (up to 256GB Optional) or SD/MMC Extended Memory
I/O INTERFACES	Ethernet	1x 10/100/1000Mbps - RJ45
	USB	2x Host 2.0 - Type A
	Serial	1x RS-232/422/485 – 1x RS-232/485
	CAN	1x CAN bus
	Digital I/O	6x GPIO and Alarm Buzzer
	Video	1x VGA – 1x LVDS (Optional Internal)
	Audio	1x Headphone, 1 x MIC
RADIO INTERFACES	Cellular	Internal UMTS/HSPA+ or CDMA/EVDO Modem
	GPS	Yes, Integrated
	Wi-Fi	a/b/g/n/- Access Point & Client
	802.15.4 / Zigbee	Factory Option
OTHER	LEDs	1x Power, 3x miniPCle Slot, 2x Programmable (Dual Color Green/Amber)
	Buttons	1x Reset, 1x Programmable
POWER	Input	9 - 36VDC (Nominal 12 or 24VDC)
	Consumption	6W (Pulse 8W), Sleep 2W (without 3G, GPS, Zigbee, WLAN)
ENVIRONMENT	Operating Temp	- 20 to +70°C (Option: - 40 to +80°C)
	Storage Temp	- 40 to +85°C
	Humidity	5-95% RH @25-35°C Non-condensing
CERTIFICATIONS	Regulatory	CE, FCC Class A, ISED
	Safety	UL 60950 Carrier Approved
	Environmental	RoHS2, REACH
	Wi-Fi / BT Radio	CE, FCC Class A, ISED
	Cellular Radio	Verizon
MECHANICAL	Dimensions	5.44"x4"x2" / 138x102x52mm (Box) – With Installed Brackets: 6.3"x4"x2" / 160x102x52mm
SOFTWARE	OS	Linux and Windows Support
	Routing	Static Routes, DHCP, DNS Client, Firewalling, SECURITY AES, 3DES, SSH, Ipsec, NAT (Network Address Translation), Terminal Server & Client, Port Forwarding