ReliaGATE 20-11

Multi-service IoT Edge Gateway - Intel Atom, Integrated 3G



- **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.

ReliaGATE 20-11

Multi-service IoT Edge Gateway - Intel Atom, Integrated 3G

EUROTECH

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/HDPA+ 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 miniPCIe 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

Note: The information in this document is subject to change without notice and should not be construed as a commitment by EUROTECH. While reasonable precautions have been taken, EUROTECH assumes no responsibility for any error that may appear in this document. All trademarks or registered trademarks are the properties of their respective companies.