

ReliaGATE 10-20

- Next Generation M2M & IoT Smart Platform
- Wi-Fi & Bluetooth Connectivity
- ReliaCELL Ready - Plug & Play Global Cellular Connectivity
- Everyware Cloud Ready
- Easy GUI-Over-The-Air Configurable
- Open Software Framework Tools & Programmability



FEATURES

Connected – With integrated support for Cellular and Wi-Fi, the ReliaGATE 10-20 provides a powerful combination of interfaces for a broad range of communication connectivity applications.

M2M and IoT (Internet of Things) Ready – Ideally suited for M2M applications to connect sensors, actuators and devices to the business enterprise.

Ready to Deploy – Includes a powerful network routing software application with simple web based configuration tools to deploy for M2M and network applications.

Programmable – Program the device quickly and simply using the Everyware™ Software Framework (ESF) and its plug-ins.

Cloud Ready – Enjoy the benefits of the Everyware™ Device Cloud (EDC) end-to-end solution by collecting, controlling, transporting, and analyzing data from the field.

The ReliaGATE 10-20 is an industrial grade smart device that provides communications, computation power and a simplified application framework for M2M platform integration and services applications. The ReliaGATE 10-20 is the lowest power system in the ReliaGATE portfolio.

The ReliaGATE 10-20 offers a variety of communication interfaces including cellular, Wi-Fi and Bluetooth enabling connectivity to a wide range of sensors and edge devices essential in M2M applications. The ReliaGATE 10-20 also includes interfaces for wired connectivity such as Dual Gigabit Ethernet, CANBus, up to four serial ports and three USB ports.

The ReliaGATE 10-20 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.

For transportation applications, the ReliaGATE 10-20 offers a low power mode of operation and ignition sense capability.

The ReliaGATE 10-20 is compatible with Eurotech's Everyware™ Device Cloud (EDC), the end-to-end solution to bring data from the field into the business applications, through a flexible and scalable infrastructure and a number of cloud-based services.

System Architecture



ReliaGATE 10-20 is shown with ReliaCELL 10-20 ruggedized cellular adapter. For more info please visit our website www.eurotech.com



CPU	Freescale i.MX6 800Mhz Solo Core Processor	
MEMORY	4GB (Up to 64GB Flash with soldered down eMMC) MicroSD Expansion, 512MB DDR3 (support to 2GB)	
WIRELESS	GPS – Supported with ReliaCELL (soldered down optional) Wi-Fi – 802.11 a/b/g/n – Access Point & Client CELLULAR – Supported with ReliaCELL, Certified Carriers (2G, 3G, LTE options) BLUETOOTH – BLE 4.0	
INTERFACE	USB ETHERNET SERIAL GPIO CAN AUDIO INPUTS EXPANSION SENSOR RTC	3x USB 2.0 ports 2x Gigabit Ethernet ports 2x RS232/RS485/RS422 2x RS232/TTL (Factory Build Option) 4x, 5v level output, 5-25v input protected to IEC61000 (15kv) 1x CANBus, 2.0B, up to 1Mbit 1x channel line out, 1x Mic input 2x Analog Inputs 2x Analog Inputs, 8bit, 0-36V Mini PCIe 3 Axis Accelerometer Battery backed RTC
ROUTING	Static Routes DHCP DNS Client Firewalling Security AES, 3DES, SSH, IPsec NAT (Network Address Translation) Port Forwarding	
POWER SUPPLY	6 to 36 VDC (Nominal 12) with transient protection, vehicle ignition input, low power mode of operation	
POWER CONSUMPTION	4W typical minimum, 17W Max	
OS SUPPORT	Yocto Linux	
ESF READY	Yes	
EDC READY	Yes	
DIMENSIONS	7.35" x 5.1" x 2.4" / 187 x 139 x 61mm (L x W x H)	
OPERATING TEMPERATURE	Industrial temperature: -40° to +80°C	
STORAGE TEMPERATURE	-40° to +85°C	
HUMIDITY	95% relative humidity at +45°C non condensing	
COMPLIANCE	CE, FCC, IC, J1455, UL Equivalent, TELEC	

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.