

ReliaGATE 10-20

- Next Generation M2M & IoT Smart Platform
- Wi-Fi Connectivity
- ReliaCELL Ready - Plug & Play Global Cellular Connectivity
- Everyware Cloud Ready
- Easy GUI-Over-The-Air Configurable
- Lowest Power in ReliaGATE Family



FEATURES

Connected – With integrated support for Cellular, Wi-Fi, Bluetooth and 802.15.4/Zigbee, 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.

- Defense and Aerospace
- Transportation and Mobility
- Security and Surveillance
- Industrial
- Logistics and Networking

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, 802.15.4/Zigbee 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



CPU	Freescale i.MX6 800Mhz Solo Core Processor		
MEMORY	Up to 64GB Flash with soldered down eMMC		
	MicroSD Expansion, 512MB DDR3 (support to 2GB) SD Card	8 GB Class 4 MicroSD	
WIRELESS	GPS – Supported with ReliaCELL (soldered down optional)		
	WIFI – 802.11 a/b/g/n – Access Point & Client		
	CELLULAR – Supported with ReliaCELL, Certified Carriers (2G, 3G, LTE options)		
	BLUETOOTH – (optional)		
INTERFACE	USB	3x USB 2.0 ports	
	ETHERNET	2x Gigabit Ethernet ports	
	SERIAL	2x RS232/RS485/RS422	
		2x RS232/TTL (optional)	
	GPIO	4x, 5v level output, 5-25v input protected to IEC61000 (15kv)	
	CAN	1x CANBus, 2.OB, up to 1Mbit	
	AUDIO	1x channel line out, 1x Mic input	
		2x Analog Inputs	
	VEHICLE PROTOCOL	Vehicle Protocol J1939 (CAN)/J1979(OBDII)/J1708 (optional)	
	INPUTS	2x Analog Inputs, 8bit, 0-36V	
	EXPANSION	Mini PCIe	
	SENSOR	3 Axis Accelerometer	
	RTC	Battery backed RTC	
ROUTING	Static Routes		
	DHCP		
	DNS Client		
	Firewalling		
	Security AES, 3DES, SSH, IPsec		
	NAT (Network Address Translation)		
POWER SUPPLY	Port Forwarding	POWER CONSUMPTION 5W Max	
POWER SUPPLY	6 to 36 VDC (Nominal 12) with transient protection, vehicle ignition input, low power mode of operation		
POWER CONSUMPTION	ESF READY Yes		
OS SUPPORT	4W TYPICAL		
ESF READY	Yocto Linux		
EDC READY	Yes		
DIMENSIONS	Yes		
OPERATING TEMPERATURE	7.35" x 5.1" x 2.4" (L x W x H)		
STORAGE TEMPERATURE	Industrial temperature: -40° to +80°C		
HUMIDITY	-40° to +85°C		
COMPLIANCE	95% relative humidity at +45°C non condensing		
	CE, FCC, IC, J1455, UL Equivalent		

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