ReliaGATE 15-10

- **General purpose M2M and IoT gateway, meeting high-reliability operational requirements**
- **Low power, allowing long battery life and minimizing power requirements**
- **Device management, Over-The-Air configurable, secure remote access and application lifecycle management**
- **Flexible, offering multiple wired and wireless connectivity**

EDC   ESF

FEATURES

Industrial – Meets the needs of demanding environments through temperature operation, shock and vibration certification, and transient and isolation protection

Programmable – Provided with open standard Yocto Linux operating system, enabled with Eurotech's Everyware Software Framework (ESF) and its plug-ins, simplifying the creation of applications utilizing Java on an Eclipse IDE

Ready-to-Deploy, Carrier Certified – Change which pre-certified Eurotech ReliaCELL 10-20 modular cellular adapter is installed, and the ReliaGATE 15-10 is immediately deployable on different mobile carrier networks, based on geography, preference and coverage

Seamless Integration – Builds upon integrated Quark processor hardware and software building blocks offering in Intel® Gateway Solutions for the Internet of Things (IoT), with Everyware Software Framework (ESF) support to extend capabilities further, including remote device management and Java programmability

M2M and IoT (Internet of Things) Building Block – Connects sensors, actuators and devices to business systems in the industrial and automation arena to enable M2M and IoT services and applications. Natively integrated to the Eurotech Everyware Cloud M2M Integration Platform for fast service development and deployment

The ReliaGATE 15-10 is a flexible Multi-Service Gateway serving a broad range of applications and specifically designed for M2M and IoT solutions. It offers companies a rugged and reliable gateway and edge controller for data aggregation, on-board processing, and data transfer to simplify industrial operations, including functions such as inventory control, facilities management, assembly line oversight, and asset monitoring. The ReliaGATE operates at extended temperature range, with industrial-grade connectors, multiple I/O capabilities and wired or wireless connectivity for automation and industrial applications.

Using the low power Intel® Quark SoC processor, the ReliaGATE 15-10 performs advanced computational functions even under battery power. Low power draw means longer runtimes for the ReliaGATE 15-10 with reduced heat generation to minimize impact on the surrounding environment and control operational costs. ReliaGATE 15-10 offers benefits through the integration of the hardware, drivers, operating system and Eurotech's Everyware Software Framework (ESF) device-resident application development framework to shorten time to market for products and service offerings.

The ReliaGATE 15-10 offers control and configuration options. A web interface allows easy configuration and application management of individual units. Another option allows individual or multiple units to be managed, configured, updated or rolled back through the Remote Device Management function of the Everyware Device Cloud full M2M solution from Eurotech. Both options, either with the Everyware Cloud service or independent of it, make the ReliaGATE 15-10 fast to deploy and upgrade over time.

EUROTECH
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ReliaGATE 15-10 is shown with ReliaCELL 10-20 ruggedized cellular adapter. For more info please visit our website www.eurotech.com

System Architecture

CPU			Intel® Quark SoC X1020D, 400Mhz
MEMORY			MicroSD Slot (4GB up to 64GB)
			512MB DDR3 (support to 1GB)
WIRELESS	**GPS**		– Supported with ReliaCELL (internal discrete GPS soldered down optional)
	WIFI		– 802.11 a/b/g/n/- Access Point & Client
	CELLULAR		– Supported with ReliaCELL up to 150mbps
INTERFACE	**USB**		3x USB 2.0 ports (1x USB 2.0 used for ReliaCELL)
	ETHERNET		2x 100Mbit LAN Ethernet ports
	SERIAL		1x RS232/RS485/RS422 (option for 2x RS232)
			1x RS232/TTL (General purpose or Console port)
	GPIO		3x, 3.3V levels, protected to IEC61000 (15kv)
	CAN		1x CANBus High Speed port. 2.0B, up to 1Mbit/s HS port
			1x CANBus Low Speed port 2.0B, up to 250kbit/s LS port
	AUDIO		1x Channel line out
			1x Mic input (optional voice via modem and I/O mixing)
	INPUTS		3x Analog input 0-36V, 10bit
ROUTING			Static Routes
			DHCP
			DNS Client
			Firewalling
			SECURITY AES, 3DES, SSH, IPsec
			NAT (Network Address Translation)
			Port Forwarding
POWER SUPPLY			6.5 to 36 VDC (Nominal 12) with transient protection
			Vehicle ignition input
			Low power mode of operation
			Optional back-up battery with integrated battery charger and monitoring
POWER CONSUMPTION			8W Typical
OS SUPPORT			Yocto Linux
INTEL GATEWAY SOLUTIONS FOR IOT READY			Yes
ESF READY			Yes
EDC READY			Yes
DIMENSIONS			5.4" x 3.8" x 1.7"/ 137 x 97 x 43 mm (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

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