DynaGATE 15-10

- **Designed for transportation, meeting demanding industry requirements**
- **Intel® Gateway Solutions for the Internet of Things Ready**
- **Remotely configurable, simplifying upgrades**
- **Flexible, presenting wired and wireless connectivity options**
- **High Level of Security & Encryption Capabilities**

FEATURES

Transportation – Shock and vibe tested, extended temperature operation and ignition switch power supply control make DynaGATE 15-10 ideal for rail, bus, trucking and other transportation applications

Seamless Integration – Builds upon integrated Quark processor hardware and software building blocks offered 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 – Ideally suited for M2M and Internet of Things applications to connect sensors, actuators and devices to the operations center for decision making based on real data. Native interface to Eurotech Everyware Device Cloud M2M integration platform for fast service development and deployment

The DynaGATE 15-10 offers transportation companies a rugged and reliable gateway for data aggregation, on-board processing, and data transfer to make operations run smoothly, including functions such as routing, vehicle tracking, engine diagnostics and interfaces to on-board systems. With multiple CANbus interfaces, ignition signal input control for on/off power function, and a 3-axis accelerometer, the DynaGATE 15-10 integrates specific capabilities necessary in the demanding transportation and automotive environments.

Operations teams can manage the DynaGATE 15-10 through the web interface for easy configuration or 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 DynaGATE 15-10 fast to deploy and upgrade over time.

While web configuration is similar to consumer gateway and router products, the design and ruggedization of the hardware means the DynaGATE 15-10 is built to withstand shock, vibration, dust and water penetration. Multiple certifications attest to the strength and longevity of the physical unit.

With integrated support for Cellular, Wi-Fi, GPS and 802.15.4/Zigbee, DynaGATE 15-10 provides a powerful combination of interfaces for a broad range of communication connectivity environments. In the facility, Wi-Fi or other near-range wireless options allow data transfer or configuration functions, while cellular and GPS options enable vital communication when vehicles are in motion.

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System Architecture

CPU	Intel® Quark SoC X1020D, 400Mhz	
MEMORY	Single Rank – Memory Down, 512 MB, DDR3L-1600	
SD Card	8 GB Class 4 MicroSD	
BIOS	8 MB SPI Boot Flash	
I2C	3-axes, accelerometer	
WIRELESS	**GPS** – Yes **WIFI** – A/B/G/N **CELLULAR** – Integrated via mPCIe Slot **BLUETOOTH** – Yes	
INTERFACE	**USB**	3x back panel USB 2.0 ports Host Ports 1x back panel USB 2.0 Device Port
	ETHERNET	2x 10/100 Base-T Ports 1x per TI 83848 PHY
	SERIAL	1 x RS232 Console
	GPIO	4 xGPIO
	CAN	1 x CAN2.0B, up to 1 MB/s 1 x CAN2.0B, up to 250kbit/s
	AUDIO	Stereo Digital Mic Input Stereo Analog Differential Mic Inputs Stereo Line Out
	INPUTS	8 channel LSADC back panel port
POWER SUPPLY	100 to 240 VAC, 47 to 63 Hz, and 12V DC, 0.4 Amp	
POWER CONSUMPTION	5W Max	
OS SUPPORT	Yocto Linux, Intel Gateway Solutions for IoT ready	
ESF READY	Yes	
EDC READY	Yes	
DIMENSIONS	7.95" x 5.47" x 2.13" (L x W x H)	
OPERATING TEMPERATURE	-40° to +80°C	
STORAGE TEMPERATURE	-40° to +85°C ambient outside enclosure	
HUMIDITY	0 to 95% Non-Condensing	
COMPLIANCE	FCC/CE	

EUROTECH
www.eurotech.com

North America
sales.na@eurotech.com

Latin America
sales.la@eurotech.com

Europe, Middle East and Africa
sales.emea@eurotech.com

Asia Pacific
sales.ap@eurotech.com

For your local contact please refer to:
www.eurotech.com/contacts