BoltGATE 20-25

EN50155 Multi-service IoT Edge Gateway - Intel Atom, LTE Cat 4, IP66

EC EN50155

Features

Rolling Stock Certified - Certified for EN50155 (TX Temperature Class, EN50155 Class S2 wide range power supply) and EN45545 (Fire and Smoke). Suitable for any heavy duty, rugged application where long-term availability and support is a must have requirement Integrated Stack - Visually compose powerful data flows for bus data acquisition, edge analysis and cloud communication Fanless Performance - Low power performance, with single, dual and quad core Intel Atom E38xx options in a fanless and ventless package

Highly Connected - Carrier pre-certified LTE cellular connectivity, 2.4/5.0GHz Wi-Fi, BLE, and Dead Reckoning GPS **Open Platform** - Provides an integrated open IoT Edge Framework to free the developer from proprietary solutions **Highly Customizable** - Modular design for application customizations, ranging from factory options to custom front panel connectors and software builds

Long-term Availability - Designed for markets and use cases where long-term availability and support is a must have requirement

Description

By offering integrated hardware and software connectivity towards the Field and the Cloud, the BoltGATE 20-25 is a Multi-service IoT Edge Gateway, EN50155 and IP66 certified, designed to address the challenges of the next-generation applications for smart transportation and connected railway.

The BoltGATE 20-25 is a fanless, compact unit based on the Intel[®] Atom™ E38xx processor; with up to four cores, 4GB of RAM and 8GB of eMMC it exceeds the requirements of rolling stock in the TX temperature class. Up to two internal or removable SATA disks and a user-accessible microSD slot provide plenty of storage capacity; other features include video, audio, two protected USB 2.0 ports, four isolated serial interfaces and DI/O, and CAN bus interfaces – and a wide range of connectivity capabilities including two Gigabit Ethernet, one LTE Cat 4 cellular modem, Wi-Fi, Bluetooth Low Energy, and a dedicated internal GPS with Dead Reckoning.

Powered by the <u>Eurotech IoT Edge Framework, Everyware Software Framework (ESF)</u>, the BoltGATE 20-25 offers a friendly web-based user interface that allows to visually compose powerful data flows to acquire data from its interfaces, analyze it on the Edge, and publish it to the Cloud though the popular MQTT protocol. <u>Everyware Cloud, Eurotech IoT Integration Platform</u>, completes this solution by providing data integration to the applications and by offering complete management of the devices deployed on the field.

For customers requiring more configuration flexibility, Eurotech Professional Services offer an extensive number of options, both for the hardware (e.g. additional features, custom front panel/connectors, branding) and for the software (e.g. customized application images).



- Rolling Stock Certified
- Visual Programming
- Fanless Performance
- LTE, Wi-FI/BLE, GPS
- Open Platform
- Highly Customizable
- Long-term Availability



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General Specifications							
PROCESSOR	CPU	E3845, 1.91GHz, Quad Core - E3827, 1.75GHz, Dual Core - E3815, 1.46GHz, Single Core					
MEMORY	RAM	Up to 4GB 1333MHz (DDR3L-ECC)					
STORAGE	Embedded	8GB eMMC – Optional mSATA Module					
	Drive Bay	1x Removable Drive Bay for up to 2x 2.5" Drives (with Key Lock)					
	Other	1x microSD Slot (Service Panel)					
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps, M12 X-coded Connector					
	USB	2x USB 2.0 Noise and Surge Protected, 1x USB 2.0 (Service Panel)					
	Serial	2x RS-232/422/485 (9-wire) Isolated, 2x RS-485/RS-422 (5-wire), 1x TTL Console (Service Panel)					
	CAN 2.0B	2x CAN bus 100mA with 5V Power Out, Isolated					
	Digital I/O	4x Digital Input, 4x Digital Output, 1x Odometer, 1x Ignition Key (All D1/O Isolated, EN50155), 24V					
	Video	1x Micro HDMI (Service Panel) – Optional: 1x HDMI (Circular Connector)					
	Audio	1x Line IN, 1x 2W Class D Stereo OUT – Factory Option: 1x Stereo Mic In, 1x Line OUT					
EXPANSION	MiniPCIe Slots	3x Full/Half-Size Mini PCIe Slots (USB/mSATA, USB/PCIe, USB)					
	Cellular	1x LTE Cat 4 Modem					
	GPS	GPS/QZSS/GLONASS/BeiDou/Galileo with Dead Reckoning					
RADIO INTERFACES	Wi-Fi/BT	802.11 a/b/q/n, BLE 4.0					
	Antennas (External)	2x SMA Cellular, 2x RSMA Wi-Fi/BT, 1x SMA GPS					
	RTC	Yes, with SuperCAP (up up 2 Months Retain)					
	Ext. Watchdog	Yes					
	EEPROM	32KB					
	TPM	Factory Option: TPM 1.2/2.0					
DTHER	Sensors	Temperature, Accelerometer					
	LEDs	1x Power, 3x Activity (MiniPCle Slots), 2x Programmable					
	Buttons	1x Reset, 1x Programmable (Service Panel)					
	SIM Slot	2x Single SIM, Switchable for Bandwidth Aggregation and Carrier/Cellular Backup (Service Panel)					
	Input	9 - 137.5VDC Wide Input Range, EN50155 Class S2 for 24VDC and 110VDC Nominal Voltage Inputs					
POWER	Consumption	15W Typ, 30W Max					
	Operating Temp.	TX according to EN50155 (-40 to +70°C, -40 to +85°C for 10 Minutes)					
ENVIRONMENT	Storage Temp.	- 40 to +85°C					
	Regulatory	CE					
	Safety	EN 62368					
	Vertical	EN50155, EN45545 (Fire and Smoke)					
CERTIFICATIONS	Environmental	RoHS2. REACH					
	Wi-Fi / BT Radio	CE (RED)					
	Cellular Radio	CE (RED)					
	Ingress	1966					
MECHANICAL	Enclosure	Material: Aluminium - Color: Black Anodized					
	Dimensions	268x141x85mm (LxWxH) – With Connectors					
	Weight	3.7Kg					
	OS	Eurotech Everyware Linux or Windows 10 IoT Enterprise					
SOFTWARE	SDK	Yocto-based Eclipse Tooling, Azul Java					
	IoT Framework	Everyware Software Framework (Java/OSGi)					

§ UL, NRTL listing Factory Option



需要详细信息? 请通过sales@hkaco.com联系我们

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Standard Variants										
Ordering codes		CPU	RAM	Drive Bay	Included Drives	Cellular	Software			
BTGATE-20-25-	01	E3815, Single Core	2GB 1067MHz ECC	Yes	No		Yocto			
	02	E3827, Dual Core	2GB 1333MHz ECC	Yes	No		Yocto			
	03	E3827, Dual Core	2GB 1333MHz ECC	Yes	1x 512GB SSD MLC High Reliability	No	Yocto			
	04	E3845, Quad Core	4GB 1333MHz ECC	Yes	1x 512GB SSD MLC High Reliability	No	Yocto			

Video-oriented Variants										
Ordering codes		CPU	RAM	Drive Bay	Included Drives	Video on Rear Panel	Cellular	Software		
BTGATE-20- 25-	11	E3845, Quad Core	4GB 1333MHz ECC	Yes	1x 512GB SSD MLC High Reliability	1x HDMI (circular connector)	1x LTE Cat 4 (EU)	Yocto		
	15	E3845, Quad Core	4GB 1333MHz ECC	Yes	1x 64GB mSATA – 1x 512GB SSD MLC High Reliability	1x HDMI (circular connector)	1x LTE Cat 4 (EU)	Windows 10 IoT ETP		

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