BoltCOR 30-17

RUGGED SERVER - 1U Intel Core - LTE - Wi-Fi/BT - UDR GNSS - OT4 Temp

- **Fanless EN50155 TX Class**
- **19" 1U Rack-Mount Short-Depth**
- **Intel Xeon® E**
- **Internal, Removable and RAID Storage**
- **Gb Ethernet and LTE Cellular**
- **Configurable and Future-Proof**
- **Long-term Availability**

EN50155

Features

Fanless EN50155 TX Class : Fanless, vent-free enclosure, certified for rolling stock in the TX temperature class with S2 power supply, suitable for any heavy duty application

Compact : 19” 1U rack-mount with short-depth form factor to fit in most space-constrained on-board and track-side installations

Scalable Performance : Supports the intensive computation of media, data, network and storage-oriented workloads, through CPU options

Flexible Storage : Provides internal mSATA, fixed or removable 2.5” SSD/HDD disks with a rugged and locking tray design and RAID levels 0, 1

Extended Connectivity : Configurable with multiple simultaneous cellular modules, multiple SIMs, dual Gb Ethernet, Wi-Fi 2.4/5.0GHz, BLE, and GNSS with Untethered Dead Reckoning

Configurable and Future-Proof : Based on a modular architecture compliant with industry standards, like COM Express, PCIe and miniPCIe, enables fast customizations and compatibility to future technologies

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

Description

The BoltCOR 30-17 is a fanless EN50155 certified server that is designed to exceed the requirements of rolling stock applications in the TX temperature class; it is extremely rugged and suitable for any project where consistent performance and reliability are a must.

With up to 32GB of DDR4 RAM (ECC option), soldered down CPUs, mSATA storage and a S2 class power supply, the BoltCOR 30-17 is extremely resilient; high reliability components, conformal coating, a vent-free design and a sturdy build add extra protection to a compact, 295mm deep, 1U rack-mount chassis.

Expandability options include two HDD/SSD drives, key-locked swappable storage bays, internal mSATA, a user-accessible SD slot and RAID levels 0, 1; additional peripherals can be added via four miniPCIe and one x16 PCIe slots.

The BoltCOR 30-17 features a wide range of radio and wireless capabilities, including cellular carrier pre-certified system configurations. Customization options include internal global cellular modems, multiple modem and SIM configurations, MIMO Wi-Fi, Bluetooth Low Energy, and GNSS with Untethered Dead Reckoning.

The BoltCOR 30-17 affords unprecedented system configurability: off-the-shelf configurations and build-to-order variants out of a palette of CPU, power supply, memory, storage and I/O subsystems options.

Designed for rolling stock applications, the BoltCOR 30-17 offers long term availability and support programs that ensure continuity of supply and customer service.

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Ordering Code: BTCOR-30-17-XX			
XX		-31*	-41*
PROCESSOR	CPU	Xeon E3-1505L v6 2.2GHz (3.0GHz), Quad Core, 25W TDP	
MEMORY	RAM	16GB DDR4 ECC Factory Option: up to 32GB DDR4 ECC or non-ECC	
STORAGE	SATA	2x 512GB SSD Factory Option: up to 2 x 1TB SSD	
	Embedded	1x 64GB mSATA Factory Option: up to 128GB mSATA	
	Drive Bay	1x Removable Drive Bay for up to 2x 2.5" SATA Drives with key-lock mechanism	
	RAID	Software RAID 0, 1 (Factory Option: HW RAID Controller)	
	Other	1x SDHC/SDXC Card Slot (UHS-1 50MB/s max) (Service Panel)	
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps Auto Sensing IEEE 1588; M12 Xcoded Connector Factory Option: up to 3x 10/100/1000Mbps	
	USB	2x Host 2.0 Noise and Surge Protected (Service Panel)	
	Serial	1x Serial Console TTL (Service Panel)	
	Video	1x MiniDisplayPort (Service Panel)	
RADIO INTERFACES	Cellular	LTE Cat 4 Global Modem Factory Option: 3x Modems	
	GNSS	Factory Option	
	Wi-Fi / BT	Factory Option (802.11 a/b/g/n, BLE 4.0)	
	Antenna (External)	2x SMA Cellular, 2x RP-SMA Wi-Fi/BT	
EXPANSION	miniPCIe	Up to 4x Full/Half Size Mini PCIe Slots (PCIe/USB/mSATA)	
OTHER	RTC	Yes, with SuperCAP (2 Months Retention @25°C)	
	Watchdog	Yes	
	EEPROM	32KByte	
	TPM	Factory Option: TPM 2.0	
	Sensors	Temperature (Inside the product); Factory Option: Accelerometer	
	LEDs	1x Power, 1x SATA Activity, 4x Programmable	
	SIM Slot	Up to 3x 2FF (Mini) Dual-SIM Support for up to 3x Modems	
POWER	Input	Nominal: 110Vdc isolated (EN 50155 S2) Range: 77 to 143Vdc (EN 50155 S2) Factory Options: 24, 48, 72Vdc	
	Consumption	80W Max	
ENVIRONMENT	Operating Temp	EN 50155 Class OT4 (-40 to +70°C), ST1 (10 minutes at +85°C)	
	Storage Temp	- 40 to +85°C	
CERTIFICATIONS (*)	Regulatory	CE; Factory Option: FCC	
	Vertical	EN50155, EN45545 (Fire and Smoke)	
	Safety	IEC/UL 62368-1	
	Environmental	RoHS3, REACH	
	Wi-Fi / BT Radio	RED; Factory Option: FCC	
	Cellular Radio	RED; Factory Option: FCC	
	Ingress	IP40	
MECHANICAL	Enclosure	Steel	
	Dimensions	483x313x44mm (WxDxH)	
	Weight	< 7Kg	
SOFTWARE	OS	Ubuntu 18.04 LTS	Windows 10 IoT Enterprise
	IoT Framework	ESF on Docker	

(§) UL, NRTL listing Factory Option.

* Contact Eurotech for availability and other configurations

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