

BoltCOR 30-17

- Fanless EN50155 Tx Class
- 19" 1U Rack-Mount Short-Depth
- Intel 6th Gen. Core and Xeon D
- Internal, Removable and RAID Storage
- Dual Gb Ethernet
- Cellular Modems with Dual SIM
- Configurable and Future-Proof
- Long-term Availability



EN50155

FEATURES

Fanless EN50155 Tx Class - Fanless, vent-free IP40 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 ranging from Intel 6th Gen. Core dual core to Intel Xeon D octa core

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, with a dedicated controller

Extended Connectivity - Configurable with multiple simultaneous cellular modules, dual SIM, dual Gb Ethernet, Wi-Fi 2.4/5.0GHz, BLE, and GPS with 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 - Targets markets and applications where long-term availability and support is a key requirement

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 ECC DDR4, soldered down CPUs, mSATA storage and an 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.

Based on standard COM Express, it is available in a range of high performance configurations, including Intel 6th Gen Core i7, i5, Celeron and Xeon-D 15xx CPUs, with a selection of cores (2 to 8) and frequencies (up to 2.8GHz).

Expandability options include two HDD/SSD drives, key-locked swappable storage bays, internal mSATA, a user-accessible SD slot and HW RAID levels 0, 1; additional peripherals can be added via 3 miniPCIe and one x16PCIe slot.

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

BoltCOR 30-17

Specifications

EN50155, Fanless Server
Intel® Core™ and Xeon-D™

Ordering code: **BTCOR-30-17-XX**

		-XX	01	02	03	04	05
PROCESSOR	CPU	Celeron 3955U, 2.3GHz, Dual Core	Core i7-6600U, 2.6GHz Dual Core		Core i7-6822EQ, 2.0GHz Quad Core	Xeon D-1519, 1.5 GHz, Quad Core	
MEMORY	RAM	4GB DDR3L 1600MHz			8GB DDR4 2133MHz	8GB DDR4 ECC Down, 2400MHz	
STORAGE	Embedded	No	1x mSATA SSD 32GB	No	1x mSATA SSD 32GB		
	SATA	1x SSD 256GB	1x SSD 512GB		2x SSD 512GB		
	RAID support	No			Raid 0,1 (HW RAID Controller - Factory Option)		
	Removable Bays	No	2x 2.5" Tray With Key Lock	No	2x 2.5" Tray With Key Lock		
	Other	1x SDHC/SDXC Card Slot (UHS-1 50MB/s max) (Maintenance Panel)					
I/O INTERFACES	Ethernet	2x 10/100/1000Gbps, M12 X-coded Connector - Auto Sensing, IEEE 1588					
	USB	2x USB 2.0 Host - Noise and Surge Protected (Maintenance Panel)					
	Serial	1x Serial Console TTL (Maintenance Panel)					
	Video	1x Mini Display Port (Maintenance Panel)					
RADIO INTERFACES	Cellular	Optional With ReliaCELL 10-20	1x UMTS Global 1x LTE Cat 4 EU	Optional With ReliaCELL 10-20			
	GPS	Factory Option					
	Wi-Fi	Factory Option	802.11b/g/n	Factory Option		802.11b/g/n	
	BLE	Factory Option	BLE 4.0	Factory Option		BLE 4.0	
	Antenna Diversity	LTE: 2x Tx, 2x Rx - Wi-Fi: 2x Tx, 2x Rx					
OTHER	RTC	Yes, with SuperCAP (2 Months Retention @25C)					
	Watchdog	Yes					
	EEPROM	32KB					
	TPM	TPM 2.0 (Factory Option)					
	Sensors	Temperature (Factory Option: Accelerometer)					
	LEDs	Power, SATA Activity, 4x User Configurable					
	MISC	SIM Slot	2x 2FF (Mini) Dual-SIM Slot for up to two Modems				
EXPANSIONS	MiniPCle Slots	4x MiniPCle Full/Half-Size					
POWER	Input	24VDC or 110VDC Isolated EN50155 S2					
ENVIROMENT	Operating Temp	EN50155 Tx Class				EN50155 T1 Class	
	Storage Temp	- 40 to +85 °C				- 25 to +70 °C	
CERTIFICATIONS	Regulatory	EN50155 - CE - FCC - EN45545 (Fire and Smoke)					
	Safety	UL 60950					
	Environmental	RoHS2 - REACH					
	Wi-Fi / BT Radio	RED					
	Ingress	IP 40					
MECHANICAL	Enclosure	Steel					
	Dimensions	483x313x44mm (WxDxH)					
	Weight	<7Kg					
SOFTWARE							
OS	Windows 10 IoT Enterprise - CentOS 7.2						
IoT Framework	Everyware Software Framework (Java/OSGi)						

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Contact Eurotech Sales for custom configurations and availability.

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