



- **Virtualization**
- **Fanless EN50155**
- **Compact Form Factor**
- **Resilient Performance**
- **Long-term Availability**
- **Professional Services**



## Features

- Virtualization** - Official compatibility with VMware vSphere for seamless integration in a software-defined hyperconverged IT infrastructure
- Fanless EN50155** - Fanless, vent-free enclosure, certified for EN50155 (Rolling Stock) in the TX temperature class (up to +85°C) with an S2 power supply, suitable for any heavy-duty application
- Compact Form Factor** - 19" 1U rack-mount with short-depth form factor to fit in most space-constrained deployments
- Resilient Performance** - Supports intensive computation of data, network and storage-oriented workloads, with a truly embedded, server-class CPU
- Long-term Availability** - Designed for markets and use cases where long-term availability and support is a must have requirement
- Professional Services** - The modular design allows further customization through Eurotech Professional Services, including the integration of user selected accelerators, storage and networking modules

## Description

The BoltCOR 30-17 Virtualization Edition (VE) is a rugged Edge server that bridges IT and OT at the Edge by delivering highly efficient virtualization even in harsh operating conditions.

The BoltCOR 30-17 VE is officially listed in the VMware Hardware Compatibility List (HCL) and is extremely rugged, with no fans nor vents, to ensure reliable operation even under EN50155 TX temperature conditions (up to +85°C) while delivering the same benefits of a typical virtualized Data Center to the Field.

With 24GB of DDR4 ECC RAM, a soldered down Pentium D1519 CPU, dual high reliability 512GB SSDs and an EN50155 S2 class power supply, the BoltCOR 30-17 VE is extremely resilient; truly embedded components, conformal coating, a vent-free design and a sturdy build add extra protection to a compact, 295mm deep, 1U rack-mount chassis.

The BoltCOR 30-17 VE features Wi-Fi, Bluetooth and dual GbE interfaces. Factory customization options include internal global cellular modems, up to three modem configurations, and GPS with Untethered Dead Reckoning.

The BoltCOR 30-17 VE offers long term availability and support programs that ensure continuity of supply and customer service

Eurotech Professional Services allow for further personalization, including validation and integration of user-selected expansion modules, with a choice of power supply, memory, storage and I/O subsystems options.

# BoltCOR 30-17 Virtualization Edition

Rugged Hyperconverged Server - 1U Fanless Edge Server, Certified for VMware vSphere

Ordering code: BTCOR-30-17-XX

Ordering Code		-10
PROCESSOR	CPU	Pentium D1519- 1.50GHz (2.10GHz), 4 Cores
MEMORY	RAM	24GB, 2133MHz ECC DDR4
STORAGE	SATA	2x 512GB SATA SSD
	RAID	Software RAID 0, 1 Factory Option: HW RAID Controller
	SD Slot (Service Panel)	1x SDHC/SDXC, 16GB SD Included
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps Auto Sensing IEEE 1588- M12 X-coded Connector
	USB	2x Host 2.0 Noise and Surge Protected (Service Panel)
	Serial	1x Serial Console TTL (Service Panel)
RADIO INTERFACES	Internal Cellular	1x LTE Cat 4 EU(Factory Option: 3x Modems)
	GNSS	Factory Option
	Wi-Fi	802.11 a/b/g/n
	Bluetooth	BLE 4.0
	Antennas (external)	2x SMA Cellular, 2x RP-SMA Wi-Fi/BT
EXPANSION	miniPCIe	Up to 4x Full/Half Size Mini PCIe Slots (PCIe/USB/mSATA) - Availability Depends on Configuration
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
	LED	1x Power, 1x SATA Activity, 4x Programmable
	SIM Slot	Up to 3x 2FF (Mini) Dual-SIM Support for up to 3x Modems
POWER	Power Input	24VDC Isolated EN50155 Class S2 (Factory Option: 110VDC)
	Power Consumption	100W Max
ENVIRONMENT	Operating Temperature	EN 50155: Class TX (-40 to +70°C, 10 minutes at +85°C)
	Storage Temperature	- 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/BLE Radio	RED; Factory Option: FCC
	Cellular Radio	RED; Factory Option: FCC
	Ingress Protection	IP40
MECHANICAL	Dimensions	483x313x44mm (WxDxH)
	Weight	< 7Kg
SOFTWARE	OS	CentOS 7.5
	IoT Framework	ESF on Docker

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