



- **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 GNSS 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

Note: The information in this document is subject to change without notice and should not be construed as a commitment by EUROTECH. While reasonable precautions have been taken, EUROTECH assumes no responsibility for any error that may appear in this document. All trademarks or registered trademarks are the properties of their respective companies.