



- **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.

| 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 | miniPCle | Up to 4x Full/Half Size Mini PCle Slots (PCle/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 |