



## TRITON 1U-SS

COMPACT 1U, HIGH-DENSITY, INTEL® 5TH GENERATION XEON®, 16" DEEP, RACKMOUNT SERVER

### PROCESSOR

- (2) LGA 4677 processor sockets
- Supports up to (2) 5th Gen. Intel® Xeon® Scalable Processors
- Intel® C741 Chipset

### MEMORY

- (16) DIMM Slots (8 per CPU)
- DDR5 ECC memory
- 1.1V modules: up to 5600 MT/s
- Up to 2 TB RAM

### NETWORK

- (2) 10GbE RJ45 LAN
- (2) 1GbE RJ45 LAN
- (1) 1GbE RJ45 management LAN

## PRODUCT DESCRIPTION

The Jensen Beach Technologies Triton 1U-SS is a compact, modular 1U rugged rackmount server designed for high-performance computing in space-constrained environments. The platform supports Intel® 5th Generation Xeon® Scalable processors and provides extensive I/O, storage, and expansion flexibility for mission-critical and industrial applications.

With a chassis depth of approximately 16 inches, the Triton 1U-SS is well suited for deployment in vehicles, shelters, aircraft racks, and other installations where depth and weight are constrained. Systems are designed and assembled in the United States and can be configured to meet specific program and environmental requirements.

## ADDITIONAL SPECIFICATIONS

### PCIe Expansion

- Up to (6) PCIe Gen5 x16 expansion slots depending on configuration
- (1) PCIe Gen5 x16 expansion slot in GPU configuration

### Removable Storage

- (2) U.2 SSDs, up to 15mm SATA 3 or
- NVMe PCIe Gen5 x4

### Video Output

- (1) VGA

### USB

- (1) USB-A 2.0 (Front)
- (1) USB-A 3.2 (Front)
- (2) USB-A 3.2 (Rear)

### Serial Ports

- (1) RJ45

### Internal Storage

- (2) M.2 slots with PCIe Gen4 x4 interface
- Supports 2280 and 22110 sizes

### Power Supplies

- (2) CRPS units

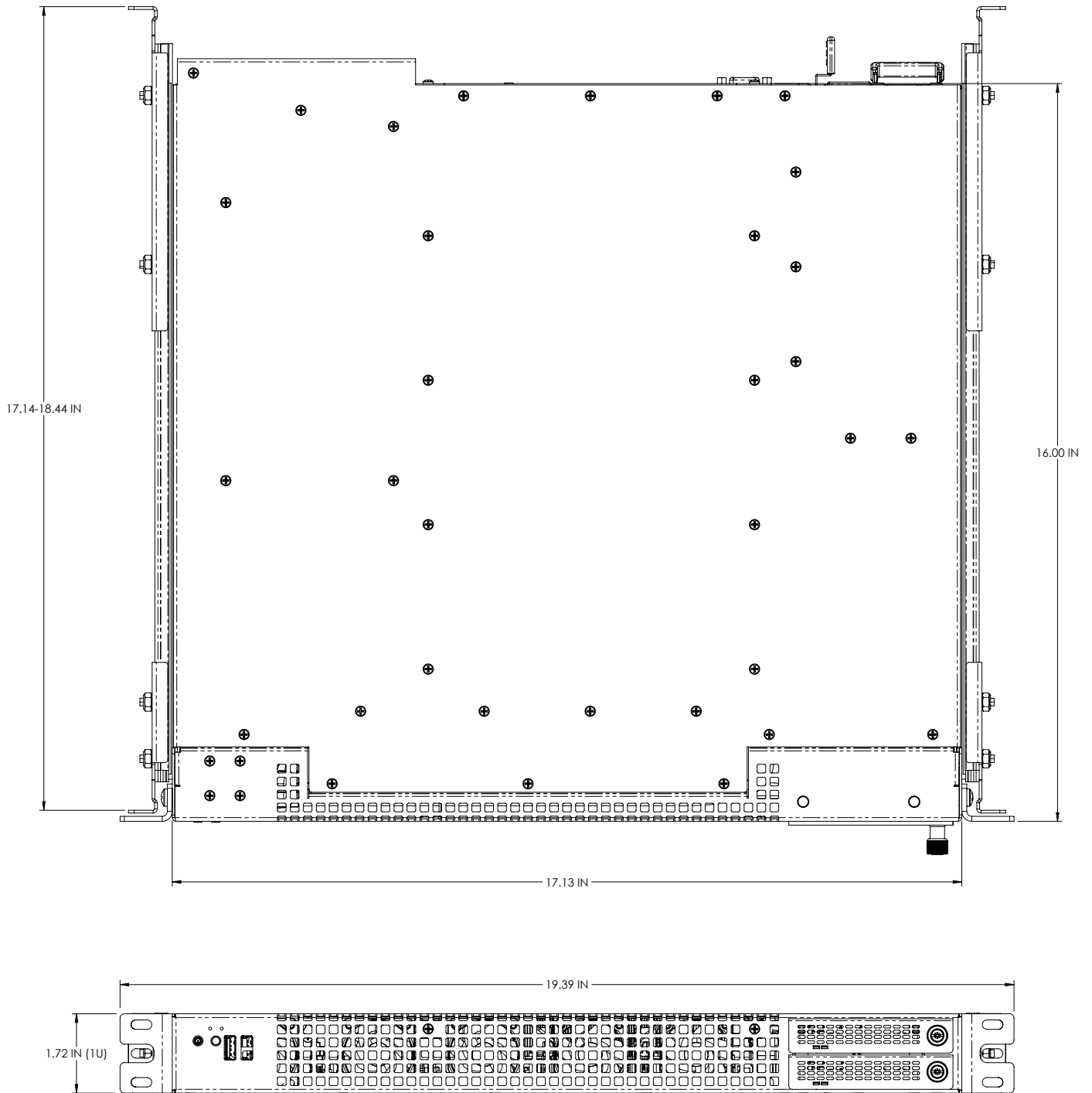
### Security Features

- Optional TPM 2.0

### Verified Compatible OS

- RHEL 6.8
- RHEL 7
- Windows Server 2022
- CentOS 7

## DIMENSIONAL DRAWING



### RUGGEDIZATION LEVEL 1 – INDUSTRIAL

- Operating Temp: 0°C to +55°C
- Storage Temp: -50°C to +100°C
- Vibration: 0.002 g/Hz (10–2000 Hz random), 2 g sinusoidal (5–500 Hz)
- Shock: 20 g peak sawtooth, 11 ms
- Humidity: Up to 95% RH

### RUGGEDIZATION LEVEL 2 – EXTENDED

- Operating Temp: -20°C to +65°C
- Storage Temp: -50°C to +100°C
- Vibration: 0.002 g/Hz (10–2000 Hz random), 2 g sinusoidal (5–500 Hz)
- Shock: 20 g peak sawtooth, 11 ms
- Humidity: Up to 95% RH with varying temperature, 10 cycles, 240 hours

### RUGGEDIZATION LEVEL 3 – RUGGED

- Operating Temp: -40°C to +75°C
- Storage Temp: -50°C to +100°C
- Vibration: 0.04 g/Hz (20–2000 Hz with a flat response to 1000 Hz), 6dB/octave roll-off from 100 to 2000Hz
- Shock: 40 g peak sawtooth, 11 ms
- Humidity: Up to 95% RH with varying temperature, 10 cycles, 240 hours