



# TRENTON SYSTEMS

High-Performance  
Computers

## TRC5003



## 5U HEIGHT - 22.7" DEPTH - INDUSTRIAL CHASSIS

### Perfect for the SWaP Conscious: Aircraft, Vessels, Vehicles & Transit Cases

#### Four quad-core SBCs and a Four-segment backplane

The Trenton TRC5003 5U rackmount computer supports up to four single board computers using a multi-segment, PCI Express backplane such as the BP4F56890. The standard configuration supports four independent 1U removable power supplies and eight 2.5" front access HDDs/SSDs making this versatile system an ideal cluster computing platform for critical government & defense, virtualization and industrial automation applications.

### PRODUCT DETAILS



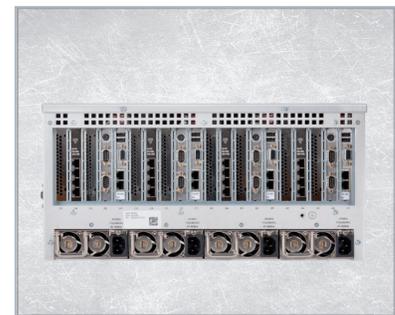
#### Lightweight Construction

The TRC5003 features a chassis constructed with lightweight aluminum.



#### Single or Dual Processor

Dual- or single-processor SHB or SBC options with the latest multi-core CPUs.



#### Removable Power Supply

Four removable rear access, 1U, 520W ATX power supplies.



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**Model Number**

TRC5003

**Board Type**

Single Board Computer

**Environmental****Temperature:** -10° C to 50° C (operating) and -40° C to 70° (storage)**Humidity:** 5% to 90% non-condensing**Chassis Standard**

EIA RS-310C 19" Rackmount Standard

**Drive Bays**

1 – 3.5" bay with 1 – 3.5" fixed HDD or 2 – 2.5" front removable/hot swap HDDs max per segment (8 HDDs max per system)

1 – Slim-line optical drive bay per segment

8 – Front access and removable drive carriers without keylocks support two, 2.5" HDDs in each of the 3.5" drive bays

OR

4- Front access and removable drive carriers with key locks support a single 2.5" HDD in each 3.5" drive bay

AND

The system also includes four media bays for DVDs.

**Power Supply**

4 – Removable rear access, 1U, 520W ATX power supplies

**Optional Card Slot Details**

Support for PCI Express 2.0 or 1.1 cards is available with the TRC5003 system. The BP4FS6890 backplane used in the TRC5003 supports three PCI Express cards per SHB segment. There are a total of twelve (12) PCI Express options cards supported in the TRC5003 system. The PCIe interface link type supported on each card slot is a function of the specific SBC option used in the system. PCIe card slot link support includes x16, x8, x4 and x1 electrical interfaces.

Additional backplane options are available if you require PCI-X or PCI option card support in the TRC5003 system.

**Hold Down Bar**

Flexible hold down bar for the SBC and the option cards for added security in high vibration environments

**Cooling**

4 – Hot-swap 92mm ball bearing fans, 102CFM each

**Dimensions**

- 19.0" (W) x 8.75" (H) x 22.74" (D)
- 48.26cm (W) 22.23cm (H) x 57.75cm (D)
- 60.0Lbs. (27.24Kg) – Includes chassis, four (4) Trenton TQ9 SHBs, a multi-segment backplane and four (4) 1U power supplies

*Final system weight is a function of the specific system configuration.*