TMS6700

TRENTON VEHICLE-MOUNTED MILITARY COMPUTER

Trenton TMS6700 Military Computer
Shown with one shoe-box backplane and one SBC

FEATURES

- **Rugged chassis design built for mobile battlefield environments**
- **MIL-STD-810 ratings for temperature, dust, mechanical shock and vibration**
- **MIL-STD-810 & MIL-STD-461 ratings for salt fog, humidity and EMI/EMC**
- **Long-life single board computer configurations with two quad-core CPUs**
- **Backplane options available to support multiple PCI Express option cards**
- **DC power supply makes this system ideal for vehicle mounted applications**
- **Six internal HDDs and rugged MIL-STD system interface connectors**
- **Long-life, stable system configurations designed for extended deployments**
- **Exclusive 5-year factory warranty on the system's SBC and backplane**

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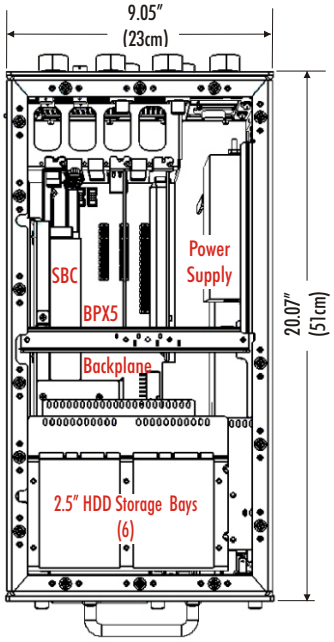
TMS6700 OVERVIEW:

The Trenton TMS6700 uses the ATR mobile chassis mounting concept to provide a military computer system using readily available, long-life PICMG 1.3 single board computers and backplanes. This design approach opens the door for vehicle-mounted, mobile military computer systems that are more cost effective and offer greater application flexibility than the typical ATR/VME product solution. Configuration stability is built into each TMS6700 to meet the extended project cycles common in military applications. The TMS6700 is designed, built, tested and certified using the applicable methods and categories defined in MIL-STD-810F and MIL-STD-461E.

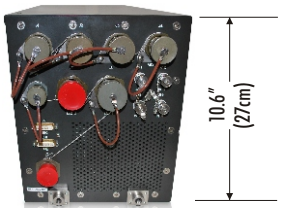
The system offers a number of configuration options including a dual-processor, Trenton MCXT single board computer and Trenton's BPX5 backplane. Other configuration options are available using Trenton's JXT6966 single board computer as well as other PCIe, PCI-x and PCI backplanes.

TMS6700 CHASSIS LAYOUT DRAWING - SINGLE BPX5 SHOE-BOX BACKPLANE & MCXT SINGLE BOARD COMPUTER CONFIGURATION:

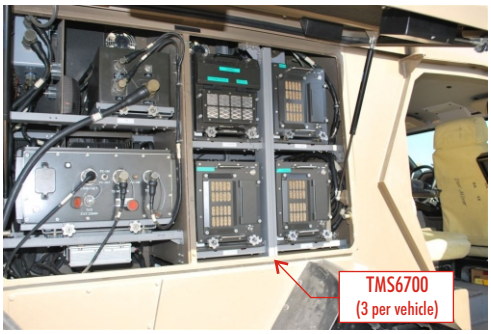


Top View

Rear View



Front View



Typical Ground Vehicle TMS6700 Installation

TRENTON STANDARD SYSTEM: TMS6700

SYSTEM MODEL	DESCRIPTION
TMS6700	ATR-style military computer solution features Trenton's long-life SBCs featuring two quad-core processors and a PCI Express shoe-box backplane

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TECHNICAL SPECIFICATIONS:

MODEL NAME	TMS6700
DESCRIPTION	ATR-style military computer solution certified to MIL-STD-810F and MIL-STD 461E and configured with one MCXT SBC and a BPX5 backplane
SHOCK & VIBRATION STANDARD	Mechanical Shock - 40G, 11msec, saw tooth per MIL-STD-810F, method 516.5 Vibrations (Operating) - per MIL-STD-810F, method 514.5, category 20; Non-Operating (transport) - per MIL-STD-810F, method 514.5, cat. 5
TEMPERATURE STANDARDS	Operating: 0° to 45° C, per MIL-STD-810F, methods 502.4 (low temp.) and 501.4 (high temp.) Storage: -30° to 65° C, per MIL-STD-810F, methods 502.4 (low temp.) and 501.4 (high temp.)
BLOWING DUST STANDARD	MIL-STD-810F, Method 510.4, Procedure I.
HUMIDITY & SALT FOG STDs.	Humidity - Up to 95% per MIL-STD-810F, method 507.4 Salt Fog - per MIL-STD-810F, method 509.4
EMI / EMC STANDARDS	EMI / EMC CE102, CS101, CS114, CS115, CS116, RE102, RS103 per MIL-STD-461E
SINGLE BOARD COMPUTER[2]	Dual-Processor - MCXT featuring two Quad-Core Intel® Xeon® Processors, other DP single board computer options available upon request Single-Processor - MCXI featuring one Quad-Core Intel® Xeon® Processor, other SP single board computer options available upon request
BACKPLANE	1 - Trenton BPX5 shoe-box backplane featuring two x16 mechanical/x8 electrical and two x8 mech./x4 elect. full-length option card slots
CHASSIS CONSTRUCTION	Heavy Duty Aluminum Chassis, coated per MIL-C-5541, painted per FED-STD-595B
DRIVE BAYS	6 - internally mounted 2.5" HDD storage drives
POWER SUPPLY	1 - DC input power supply, 450W, 18 - 36 VDC
SYSTEM POWER DISSIPATION[3]	320W, nominal
COOLING	2 - 80x25mm Fans (front-mounted)
INDICATORS	LEDs for HDD activity and Power Status
SWITCH	Power On/Off and System Reset
CONNECTOR PORTS	Front: 3 - USB behind door, Rear 2 - Ethernet LANs, 2 - USB, 1 - SXGA Analog Video (standard, additional rear I/O ports available upon request)
SYSTEM NET WEIGHT	29.76 Lbs. (13.5 Kg.) - Includes chassis, one Trenton MCXT SBC, one Trenton BPX5 backplane, three HDDs and the system power supply
METRIC DIMENSIONS	23cm (W) x 27cm (H) x 51cm (D)
ENGLISH DIMENSIONS	9.05" (W) x 10.6" (H) x 20.07" (D)

Trenton Systems offers complete system integration of a wide variety of standard and customer supplied operating systems and application software packages. Various Microsoft®, Linux and RTOS operating systems can be loaded on to your system by our highly skilled factory technicians. Other system integration services include loading and testing of industry standard or COTS option cards as well as custom designed boards.

Standard industry certifications and approvals for your specific system configuration are also available from Trenton Systems.

Final system weight, environmental specifications and total power consumption estimates are a function of the specific system configuration. Preliminary estimates and final validated values are provided by Trenton for each rackmount computer system we build.

NOTES:
1. *The chassis photos are shown for illustrative purposes only.*
2. *Other backplane configurations available upon request.*
3. *Actual total power dissipation is a function of the final system configuration.*

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