



TACTICAL ADVANCED COMPUTER (TAC) Mighty. Light.

A family of rugged mission computers dominating SWaP-C and achieving cutting-edge performance across the modern cyber battlespace with the latest in embedded computing technology.

LIGHT, DURABLE, READY FOR EXTREMES

Less than 5 pounds, fanless, sealed, and operating between -40°C and +70°C at 100% stress.



Proudly designed, manufactured, assembled, tested, and supported in Atlanta, Georgia.



Easily remove storage drives and change out the real-time clock's field-replaceable battery.



FULL SECURITY STACK

•===:

Intel® TXT uses hardware-based mechanisms that protect the confidentiality and integrity of stored data.



Intel® SGX includes predefined portions of memory that can better protect sensitive information.



Crafted in a USA facility by security-conscious software, mechanical, and electrical engineers, TAA & BAA-approved. Strict revision control is achieved through Trenton Systems' approved vendor list (AVL), ensuring engineervetted parts.



Counterfeit Protection Program helps Trenton detect, remove, discard, document, and report suspected counterfeit electronics.



Vetted supply chain helps protect your system from potentially compromised electronic parts and components.



FIPS-140-2-certified SEDs take protection of classified, secret, and top-secret data to the next level.



Military-grade, NSA-approved AES 256-bit encryption engine boasts the industry's tried-and-true gold standard of data encryption.



Integrated management software for FIPS-140-2-certified SEDs simplifies data-at-rest security, implementation, and access control.

intel



GET IN TOUCH trentonsystems.com sales@trentonsystems.com +1 (770)-287-3100



CARRIER BOARD

COM Express Type 7

PROCESSORS

Intel® Next-Gen CPUs

MEMORY

Up to 48GB Dual Chaneel DDR4 ECC or Non-ECC

INPUT / OUTPUT [2x 38999 connectors: AMPHENOL TV07WCI-21-35P]

- ▶ USB: 4x USB 2.0 ports
- Video: 2x DVI ports (optional HD-SDI) ►
- LAN: 3x Gigabit Ethernet ports ►
- Serial: 2x RS232 serial ports ►
- ▶ SATA: 2x 6Gb/s SATA connectors
- NVMe: 2x NVMe connectors •
- ▶ TPM 2.0: Infineon SLB9670

SWaP

As small as...

- ► Size:
- Height: 2.75" (6.985 cm)
- Width: 5.875" (14.9225 cm)
- Depth without flanges: 7" (17.78 cm) Depth with flanges: 7.75" (19.685 cm)
- Weight: less than 5 lbs.
- ▶ Power: 28VDC power source

STORAGE

Take advantage of improved data security and ease of access with the advanced physical protections of fully sealed removable storage drives.

FANLESS SYSTEM COOLING

The TAC's passive-cooling design is perfect for debris-heavy environments and noiseless operation.

Rugged, Extreme, and Flexible

Purpose-built for various air, sea, land, space, and cyber missions with extensive configurability and expansion options, the TAC is a truly made-in-USA, small-form-factor, embedded, passive-cooled, sealed C6ISR solution.

On-the-spot flexibility and integration to current and future technologies with a superior cybersecurity feature set adherent to DaR. NIST. and NSA's CSfC make it ideal for mission-critical applications that need comprehensive protection of sensitive data and reduced physical and digital attack surface.

TAC mission systems are the modern warfighter's field replaceable units packaged with next-gen performance, security, and ruggedness.

GRAPHICS

Designed to support the latest NVIDIA GPUs on a MXM module

SYSTEM BIOS

- ▶ BIOS Type: SPI NOR Flash with Insyde BIOS
- BIOS Features:
- Plug and Play (PnP)
- APM 1.2
- PCI 2.2
- ACPI 1.0 / 2.0
- USB keyboard support
- SMBIOS 2.3
- UEFI

ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -40°C +70°C
- Storage Temperature: -51°C +85°C
- Shock: 3 axis, 35g, 25ms
- Vibration: 4.76Grms, 10Hz to 2000 Hz (SSD)

*Preliminary numbers noted. Final numbers expected to outperform current specifications.

COMPLIANCE

Designed to meet the following standards/certifications:

- ▶ IP67
- MIL-STD-810H
- ▶ MIL-STD-901H
- ▶ DO-160F
- 2014/35/EU (LVD)
- ► 2014/30/EU (EMC)
- ► CE

