

# THERMITE®

## 8000 Series



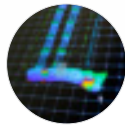
Airborne



Maritime



Land-based



High-Performance  
Computing

## Performance Computing for Every Mission

Designed for airborne, maritime, land-based, and high-performance computing applications, Colmek's Thermite® 8000 Series is a rugged, commercial off-the-shelf (COTS), configurable, server-class mission computer. Featuring either an Intel® 6th generation Xeon E3-1505L V5 or E3-1515M V5 processor and an NVIDIA® discrete graphics module, this Thermite® is optimized for size, weight and power (SWaP) constrained mobile, airborne, ground-based, manned or unmanned vehicle and sensor applications. It combines multi-core processing with world-class integrated graphics to support commercial and defense-related tactical mission requirements. Designed to take advantage of accelerated processing capability enabled by its GPU core, the Thermite® 8000 Series provides unparalleled computing power in a ruggedized and mobile form factor. Expanding upon the Thermite® mission of video and general-purpose processing, the 8000 Series takes a generational step forward in providing computing power to the user.

- Designed for Artificial Intelligence applications using NVIDIA® Quadro® architecture
- Data- and graphics-intensive mission ready with high-performance processing, memory, and storage.
- Off-the-shelf value with broad configurability and expandability.
- Size, weight, and power optimized for mobile platforms and compute efficiency.
- Designed to meet MIL-STD-810G specification for extreme use and environments.

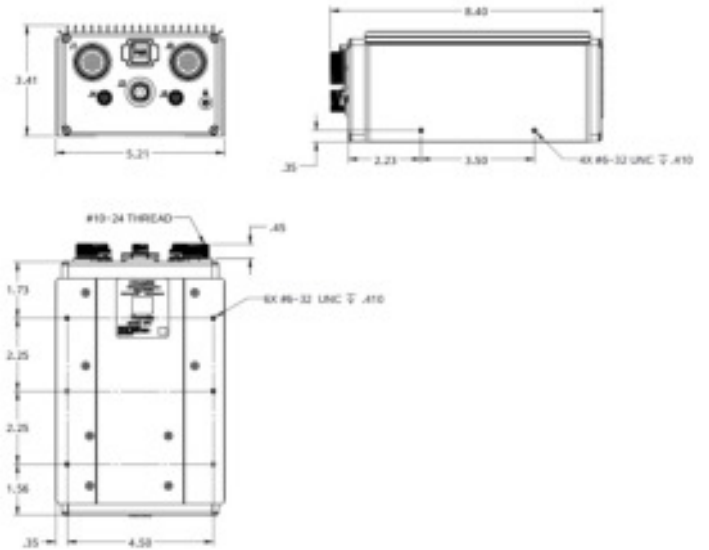


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CPU	Intel® 6th generation Xeon® E3-1505L V5 or E3-1515M V5 with 8MB Cache
Graphics	NVIDIA® Quadro® Embedded P2000 4GB 128BIT GDDR5 768 CUDA cores
Memory	32GB DDR4 ECC SO-DIMM 64GB DDR4 ECC SO-DIMM configurable
Storage	256GB M.2 iSLC SSD Optional removable SSD
Video Output	Two HDMI 1.4 ports
Standard Interfaces (High Configurability)	Four USB 2.0 ports Two USB 3.0 ports Two Gigabit Ethernet (GigE) ports Two configurable serial I/O ports: RS-422, RS-485 or RS-232 Audio I/O Fan connection (power and status ports)
Operating System	Linux or Windows
Expandability	Mini PCIe slots MIL-STD-1553 mSATA option M.2 SATA slot CAN Bus Video Capture Wi-Fi/BT GPS ARINC-429 Gig Ethernet GPIO ADC DAC Fiber
Power	18V to 33V input, MIL-STD 1275E compliant Optional power button with indicator Optional MIL-STD-704 power supply Max. – 150W Nom. – 35W
Ruggedization	IP67 Designed to MIL-STD-810G Environmental Designed to MIL-STD-461F EMI/EMC
Thermal	Standard Conduction Cooled or forced air-cooling Storage Temp: -55° to 85° C Operating Temp: -40° to 71° C

Dimensions	8.4 in. x 5.2 in. x 3.4 in. (L x W x H) 210mm x 130mm x 86mm (L x W x H)
Weight	4.8 lbs. (2.2 Kg)
Exportability	Dual use, 4A994, under U.S. export guidelines Contact Colmek for details



Specifications and dimensions may be subject to change. Please contact us for the most current information. Intel® and Xeon® are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries. Quadro® is a trademark of NVIDIA. Thermite® is a registered trademark of Coda Octopus Colmek, Inc.

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Colmek is a Qualified Small Business supplier of engineering services and systems with over 40 years of experience developing, supporting, and maintaining mission critical defense systems for land, sea, and air applications. Our customers achieve faster test and production times, lower failure rates, and more actionable intelligence from their data.

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