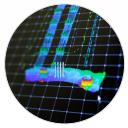
THERMITE®

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, Coda Octopus Engineering's Thermite® 8000 Series is a rugged, commercial off-the-shelf (COTS), configurable, server-classmission computer. Featuring an Intel® Core™ i7-13800HRE extended temperature 2.5GHz processor and a NVIDIA® discreet graphics module, this Thermite® is optimized for size, weight and power (SWaP) constrained mobile, airborne, ground-based, manned or unmanned vehicle and sensor applications 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.

1.801.973.9136 | newbusiness@codaeng.com

Designed for **Artificial** Intelligence applicat ionsusing NVIDA® **architecture.**

Data and graphics intense 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 and MIL-STD-461F for extreme use and environments.

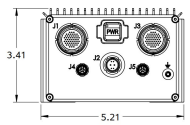
Coda Octopus Engineering

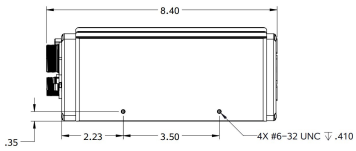
THERMITE®

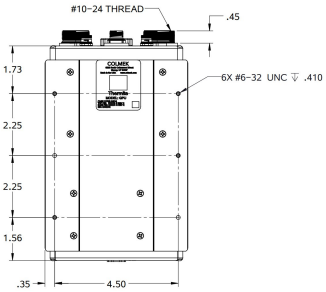
8000 Series

CPU	Intel® Core™ i7-13800HRE ext. temperature processor with 24MB cache and integrated Intel® Iris™ Xe graphics
Graphics	NVIDIA® A2000 8GB GDDR6
Memory	64GB DDR5 ECC SDRAM
Storage	M.2 or mSATA solid state storage Optional AES encryption and Secure Erase
Video Output	Two HDMI 1.4 ports
Standard Interfaces (High Configurability)	Two 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 or M.2 for: MIL-STD-1553 CAN Bus Video Capture Wi-Fi/Bluetooth GPS ARINC-429 Gig Ethernet GPIO ADC DAC Fiber
Power	18V to 36V 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	7.7 lbs. (3.5 Kg)
Exportability	Dual use, 4A994, under U.S. export guidelines Contact Coda Octopus Engineering for details







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

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Coda Octopus Engineering

Coda Octopus Engineering 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 and missions.

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