

Hawk-Strike® IV



Rugged Small Form Factor High Performance Multi-Mission Edge Computer

Key Product Features

- CPU: Intel Xeon or Core i7 Quad-Core
- GPU: NVIDIA GeForce or Quadro
- Up to 48GB DDR4 Dual Channel Memory
- (2) x Removable SATA 2.5" SSD
- Ultra-Dense I/O with Expansion Capability
- Adaptable to Support Sensor/Video Capture/Encode
- Adaptable to Support Multiple Ground or Airborne Data Bus Architectures Including CAN/ARINC
- Wide-Range DC Input 18-36VDC
- MIL-STD-810H Shock and Vibration
- MIL-STD-461E EMI/EMC
- MIL-STD-1275E and MIL-STD-704F Power
- IP66 Sealed Dust/Water Ingress
- Windows/Linux OS Compatible
- -40°C to +60°C Operating Temperature (Passive Conduction Cooling)

Product Highlights

The Hawk-Strike® IV is a fully rugged, high-performance, multi-mission embedded edge computer. Hawk-Strike® IV boasts a rich feature set built around an extreme rugged form factor, providing an economy of capability within a superior SWaP-C optimization effort. Hawk-Strike® IV supports and enables real-time AI training and inferencing by integrating multiple immediate-future technologies.

The Hawk-Strike® IV is purpose-built converging to today's C5ISR demands by providing the advanced computing capability and ruggedization demanded for mission-critical applications in ground, airborne, and shipboard platforms. Hawk-Strike® IV offers robust configuration options and expansion capability for any desired mission feature set.

The Hawk-Strike® IV is engineered and manufactured in a single LRU to reduce the demand on platform SWaP, exactly meeting ruggedized vehicle computer requirements for unlimited deployment.

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Fanatical Customer Service | Passion for Improvement | Strong Work Ethic | Integrity



Specifications

ENCLOSURE

Material	Black Anodized Aluminum Exterior w/Clear Alodine Interior
Indicators	Power
Controls	Power
Dimensions	(W x D x H) 8.5" x 13.25" x 5.1"
Sealing	O-ring Sealed for IP66 Dust/ Water Ingress Protection

System Boards

CPU	Intel Xeon or Core Quad-Core
GPU	NVIDIA GeForce or Quadro
Memory	Up to 48GB Dual Channel DDR4 ECC or Non-ECC
Power	Input 18-36VDC (28VDC Nominal) Filtered
Operating System	Supports Windows and Linux OS

System I/O

Serial	Up to (2) x RS232 and (2) x RS485/RS422
LAN	Up to (2) x GbE
USB	Up to (2) x USB 3.0; (4) x USB 2.0
Video Inputs/ Encoder	(4) x PAL/NTSC Composite Video, up to (4) x HD/SD- SDI, or up to (2) x 3G-SDI Inputs; Supports CoT and KLV Metadata; Low Latency
Video Outputs	Up to (4) x DVI; VGA and SDI Options
Connectors	All 38999 Mil-Circular; USB 3.0 Field in 38999 Shell
Expansion	Robust I/O Expansion Options Including 10GbE SFP+, Multi-Port GbE Switch, CAN, ARINC-429, 1553, USB, Serial, GPS, mSATA SSD

Storage

Removable	Up to (2) x 2.5" SSD SATA III with Toolless Removal
Environment Temperature*	-40°C to +60°C, Operating -40°C to +85°C, Storage
Altitude**	MIL-STD-810H Method 500.6 Procedure I and II
Humidity**	MIL-STD-810H Method 507.6, Procedure II (Aggravated)
Vibration	Certified to MIL-STD-810H, Method 514.8, Procedure I (Operational Service), Category 4, Composite Two-Wheeled Trailer, Composite Wheeled Vehicle. Rotary/Fixed-Wing Aircraft**
Shock**	MIL-STD-810H, Method 516.8, Procedure I (Functional) 20G at 11ms; Procedure V (Crash Hazard) 40G at 11ms
Explosive Atmosphere**	MIL-STD-810H Method 511.7, Procedure I
EMI/EMC	Certified to MIL-STD-461E CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103
Power**	MIL-STD-1275E/704F
Sand and Dust/Water**	MIL-STD-810G Method 510.6; IP66 Sealed

**System operating temperature is configuration-dependent. All systems are temperature tested via 24-hour burn-in at 50C. Hawk-Strike® IV has been validated from -40C to +60C operating temperature. Specific configuration extended temperature testing can be conducted on-site per customer request and requirement.*

***Designed to meet certain test methods, procedures, and levels of MIL-STD.*