



Hawk-Strike® IV

Workstation-Class Mission Computer



Lifecycle Stage: Active | Qualified Production

systelusa.com/hawk-strike-iv

Product Brief

Hawk-Strike IV is a fully rugged, single line replaceable unit (LRU) multi-mission workstation-class embedded compute solution, purpose-built for deployment in austere environments for demanding defense and commercial applications.

Hawk-Strike IV offers robust IO and system expansion for a true single LRU solution with centralized and converged sensor ingest, processing, networking, storage, controls, and distribution—supporting the mission with reliable tactical processing and communications enabling capabilities.

Hawk-Strike IV is ideal for x86-based high-performance computing applications with a GPU for parallel processing with low latency of data-intensive workloads.



Key Features

- COM Express Type 6 Architecture
- Latest Intel Xeon or Core mobile CPU
- Latest NVIDIA embedded GPU
- Memory: up to 64GB DDR4
- Storage: (2) removable 2.5" SSDs up to 4TB each; internal mSATA storage
- Dense IO including multiple GbE, USB, serial, audio, GPIO, DVI
- Significant PCIe-based system expansion capabilities; highly configurable
- Security: supports data at rest (DAR) and data in transit (DIT); onboard TPM 2.0; supports FIPS 140-2 and AES 256 encryption; Intel TXT and SGX
- MIL-SPEC rugged and fully sealed
- Operating temperature up to -46C to +60C (passive cooled)
- Engineered with a standards-based approach utilizing open architectures and COTS technologies
- Designed using a Modular Open Systems Approach (MOSA)

Hawk-Strike IV Specifications

Model Number: EC7030

Systel 3-Year Product Warranty
EOL and Configuration Management Included



System Specs

Chassis

- Material: machined aluminum
- Finish: black anodized exterior, clear alodine interior
- Mounting: base mounting

SWAP

- Chassis Dimensions: 8.50"W x 13.25"D x 5.05"H
- Weight: ~16lbs (config dependent)
- Power: 28VDC, 200W max (integrated, non-isolated power supply)

Processing

- CPU: (1) Intel mobile with TPM 2.0; standard is Xeon E-2276ML 9th gen, 6 cores, 2.00/4.20 GHz
- GPU: (1) embedded NVIDIA; standard is RTX A1000 (Ampere; 2048 CUDA cores, 16 RT cores, 64 Tensor cores; 4GB) or RTX A2000 (Ampere; 2560 CUDA cores, 20 RT cores, 80 Tensor cores, 6GB)
- Memory: up to 64GB DDR4 ECC dual-channel

OS

- Supports Windows and Linux 64-bit (please consult with a Systel sales representative for specific OS requirements)

Base System IO

- Ethernet: (2) GbE
- USB: (2) USB 3.0, (2) USB 2.0
- Serial: (2) RS422 (485 is built-time option), (3) RS232 RX/TX only
- Video Output: (2) HDMI/DVI (from CPU); (2) HDMI/DVI (from GPU if populated)
- Audio: stereo headphone and mic

Connectors

MIL-DTL-38999 for IO and power; 2M801 for USB 3.0; SMA or HD-BNC for RF

System Expansion

Numerous options including GbE switch, CAN, video capture and encode (multiple formats and types), LTE, GPS, GPIO, ARINC 429, 1553.

- (2) mPCIe
- (2) PCIe/104 type 2
- Other interfaces available (ex: USB)

Storage

- (2) removable 2.5" SSD drive bays, SATA III up to 4TB each. FIPS 140-2 options
- Internal (non-removable) mSATA options via mPCIe expansion up to 1TB

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Environmental Specs

Operating Temp	Qualified to -46C to +55C, Tested to +60C (passive cooled) MIL-STD-810H, Method 501.7, Proc. II; Method 502.7, Proc. II;
Non-Operating Temp	Qualified to -55C to +85C MIL-STD-810H, Method 501.7, Proc. I; Method 502.7, Proc. II
Vibration	Qualified to MIL-STD-810H, Method 514.8, Proc. I, Cat. 4, C-V, Composite Two-Wheeled Trailer
Shock, Functional	Qualified to MIL-STD-810H, Method 516.8, Proc. I, 40g at 11ms, Ground
Shock, Crash Hazard	Qualified to MIL-STD-810H, Method 516.8, Proc. V 75g at 6ms, Ground
Altitude	MIL-STD-810H, Method 500.6, Proc. II, 50k feet*, Operating <i>*thermal derating may occur</i>
Humidity	MIL-STD-810H, Method 507.6-7, Proc. II, RH 95%, 60C, Aggravated
Sand and Dust	MIL-STD-810H, Method 510.7, Proc. I and II; IP6X: IEC60529:2013 Section 4.2.7
Fluid Ingress	MIL-STD-810H, Method 506.6, Proc. II; IPx7: IEC60529:2013 Section 4.2.7
EMI/EMC	Tested to CS101
Power	Tested to MIL-STD-1275E Section 5.3.3.1.1, Section 5.3.3.1.2, Section 5.3.3.2.2, Section 5.3.4; Tested to MIL-HDBK-704-8 LDC102, LDC104, LDC301, LDC401, LDC602

Unless otherwise noted, all environmental specifications are designed to meet with testing pending. "Qualified to" indicates that certified 3rd party testing has been successfully completed. "Tested to" indicates that Systel internal testing has been successfully completed. All testing completed on base model unit(s).



SYSTEL

Any **Mission.** Anywhere.

All specifications are configuration-dependent and subject to change. Please contact a Systel sales representative to discuss your configuration.

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