

HAWKEYE

DEVELOP & DEPLOY



Avionics Mission Computer

SIP's new series of small footprint, Intel®-based computers features fanless operations with built-in 1553, ARINC and discrete databus protocols that complement on-board Gigabit Ethernet, USB, serial, video and virtually any type of I/O.

Standard Military-grade, Conduction-cooled, IP67 Enclosure with XMC/PMC and Mini-PCIe expansion

Fanless, RCOTS enclosure option with XMC/PMC and Mini-PCIe expansion

Performance & Flexibility

The HAWKEYE is a fully-functional Intel®-based computer packaged into a small, lightweight, conduction-cooled enclosure. We provide both a low cost fanless chassis as well as a full conduction-cooled MIL grade design for on platform/deployable operations. The use of our XMC/PMC and miniPCIe expansion allow us to provide various configurations of MIL-STD-1553, ARINC 429/708/717 and discrete I/O with base RS-232/422/485, Ethernet, USB, video and audio functions.

All configurations are designed to meet **MIL-STD-810**, **DO-160**, **MIL-STD-704** and **MIL-STD-461**; customer to advise specific methods and procedures.

Key Features & Benefits

Low-power Intel® Processors:

Single and Multi-Core Intel i5, i7 (8th/9th gen) & XEON

Chipset: Intel® QM77/CM246

System ECC DRAM: up to 32GB (8th/9th gen) & 12GB (Single, Dual Core i7)

Flash Storage: 32GB SSD (standard), options for MSATA, SATA SSD, m.2

Connectors: Customized MIL-C-38999, IP67, M12

Storage Interface: SATA, Software RAID 0/1/5/10 capable, removable

I/O Ports:

- 1x to 5x Intel Gigabit Ethernet Ports (platform-dependent)
- 4x USB3.0 and 5x USB2.0 ports
- 2x RS232 and 2x galvanic isolated RS422/RS485
- Graphics: DVI-I, LVDS x16, VGA option

Flexible I/O Node Expander: Expansion, up to 4 additional Mini-PCI Express sockets

PCI/104-Express to XMC/PMC Adapter: Integrate up to 1, 3 or 6 XMC or PMC modules
XMC and PMC cards can be mixed on the adapter

Avionics Options: MIL-STD-1553, ARINC, Discrete Digitals

I/O Options: include MIL-STD-1553 and ARINC-429/717, Synch/Asynch Serial

I/O Expansion: Managed GigE Switch, WIFI, GPS, UPS/Battery, Analog I/O, CANbus, Removable Storage, Dual Display, GPGPU

Operating Temperature Ranges: Standard -20°C to +60°C / Optional -40°C to +75°C



Specifications

Power Consumption:

8-36 VDC (platform-dependent)
10-46 Watts (platform-dependent)

Weight:

3.0kg / 6.6lb for MIL conduction-cooled
2.2kg / 4.85lb for Rugged COTS

Enclosure Dimensions:

Military Conduction-Cooled:

304mm L x 233.5mm W x 75mm H
(11.97in L x 9.19in W x 2.44in H)

Rugged COTS Fanless:

270mm L x 162mm W x 62mm H
(10.63in L x 6.38in W x 2.44in H)



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