

Raven-Strike™



Next Generation Computing for Combat Vehicles

Key Features

- Dual Intel® Xeon® Gold Scalable Processors
- NVIDIA® P5000 GPGPU
- Full HD Video Capture and Encode
- Dual 10GbE Fiber High Bandwidth Networking
- M.2 High Speed SSD
- PCIe/104 Expansion
- Fully Sealed
- Advanced Thermal Management Cooling
- Ultra-Dense I/O Capability
- Wide Temp Range 24VDC Power
- MIL-STD-810G Shock and Vibration
- MIL-STD 461 EMI
- MIL-STD 1275 Vehicle Power
- IP66 Water Ingress
- -40°C to +55°C Operating Temperature
- Optimized for Major Battle Management Systems

Product Highlights

Raven-Strike™ is a fully rugged mission computer purpose-built for modern fighting vehicles. Featuring state of the art Intel® Xeon® Scalable Processor CPU and NVIDIA® GPGPU high performance parallel processing, HD full motion video capture and encode, and complete sensor integration and data fusion, Raven-Strike offers peerless capability in a SWaP optimized system.

Raven-Strike integrates maximum compute and networking throughput and enables deep learning and artificial intelligence capability through the use of neural networks. Systel's advanced thermal management engineering ensures survival in extreme operating conditions.

Raven-Strike is a fully rugged system, built to exceed the harshest military specifications including shock and vibration, dust and water ingress, and EMI/EMC.

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Next Generation Computing for Mission Success

Specifications

ENCLOSURE

- Material** Black Anodized 6061-T6 Aluminum w/Gold Alodine Interior
- Indicators** Power
- Controls** Power and Reset Switches
- Dimensions** (W x D x H) 14.2" x 20.6" x 7.6
- Weight** 35 lbs/15.88 kg
- Sealing** O-ring Sealed for IP66 Water

System Board

- CPU** (2) x Intel® Xeon® Gold 6134 8-Core, 3.20 GHz, 24.75M Cache
- GPU** NVIDIA® Quadro P5000 2560 CUDA Cores, 16GB GDDR5
- Video Capture** (4) x Frame Grabber Cards
- Memory** Up to 1.5TB DDR4
- Video Outputs** VGA full HD 1920x1080 resolution
- Operating System** Supports Windows 10/8/7 Pro 32 or 64-bit, Linux 64-bit, VxWorks

RUGGEDIZATION

- Systel** 10 Point Survivor Technology

MIL-STD-810G Shock and Vibration.

Note: Systel maintains an on-site environmental lab for shock and vibration testing. As an added benefit we can test the many different combinations for operating and non-operating profiles to meet transportation, airframe and shipboard applications.

I/O

- Serial** (1) x RS-232
- LAN** (2) x 10GB/E SFP+ Fiber
- USB** (7) x USB 3.0
- Power** +24VDC Filtered
- Video Inputs** Up to (8) x Various
- Vido Outputs** (1) x VGA
- Type** All 38999/Mil-Circular Connectors

STORAGE

- Internal** (1) x M.2 SSD

Environment

- Temperature** -40°C to +55°C, Operating -40°C to +85°C, Storage
- Altitude** >15,000 ft.
- Humidity** 5% to 95% Non-Condensing
- Vibration** MIL-STD-810G, Method 514.6, Proc I
- Shock, Crash** MIL-STD-810G, Method 516.6, Proc I and Proc V
- EMC** MIL-STD-461
- Water** IP66

