

# Hawk-Strike™



## Rugged Small Form Factor High Performance Multi-Mission C5ISR Solution

### Key Features

- Latest Intel Core i7 CPU
- Dual 3G-SDI or quad HD/SD-SDI/Composite (NTSC/PAL) H.264 encoder w/full KLV COT metadata
- Up to (7) x GbE
- (1) x removable 1TB SSDs
- (1) x internal mSATA drive
- PCIe/104 expansion
- Wide range DC input +12 to +48
- MIL-STD-810G Shock and Vibration
- MIL-STD 461E
- -40°C to +55°C operating temperature
- IP66 water ingress
- Power draw: 70W

### Product Highlights

Hawk-Strike™ is a fully rugged, SWaP optimized, high-performance, multi-mission C5ISR/ISTAR solution. It offers the power of an Intel i7 quad core processor for critical computing, simultaneous quad HD-SDI or dual 3G-SDI video capture and encoding using the H.264 standard, dual HD video output and 7 GbE ports for real-time playback, and dual SSDs for secure storage of mission data.

Hawk-Strike is ideal for mission-critical applications involving multiple sensors and network interfaces. It provides mission capability and a force-multiplier capacity in a single Line Replaceable Unit.

Hawk-Strike's combination of unmatched video encoding and next-generation processing provides real-time full motion video and the ability to create intelligent products for consumption and distribution, ensuring accuracy and rapid response by the warfighter.

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# 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) 8" x 9.5" x 6" (with removable SSD)
- Weight** 11.5 lbs/5.67 kg
- Sealing** O-ring sealed for IP66 water

## System Board CPU

- CPU** Latest Intel Core i7
- Memory** Up to 32GB
- Video Outputs** Three displays supported via display port, HDMI, DVI, or VGA full HD 1920x1080 resolution
- Operating System** Windows 10/8.1 64-bit, Windows 7 32/64-bit, Linux 64-bit, VxWorks Supported

## Systel Encoder Board

- Input** (4) x PAL/NTSC composite video, up to (4) x HD/SD-SDI, or up to (2) x 3G-SDI inputs
- SDI Receivers** Comply with SMPTE 259M (SD-SDI), 292M (HD-SDI), and 424M (3G-SDI)
- Features** Metadata and encoding latency as low as 55 milliseconds
- Ruggedization** PCB conformal coated

## RUGGEDIZATION

- Systel** 10 Point Survivor Technology



## Front Panel Connectors

- Main I/O** (4) x GbE, (2) x RS232, (2) x RS422, (2) x USB 2.0, (2) x DVI-D Video Out
- LAN** (2) x GbE, RJ Field
- USB** (2) x USB 3.0 Field
- Power** +12 to +48 VDC filtered
- Video Inputs** Up to (4) x various
- Type** All 38999 Mil-Circular expect BNC for video

## DRIVE BAYS

- Removable** (1) x 2.5" SSD
- Internal** (1) x mSATA

## Environment

- Temperature** -40°C to +55°C, Operating -40°C to +85°C, Storage
- Altitude** >15,000 ft. (testing dependant)
- Humidity** 5% to 95% Non-condensing
- Vibration** MIL-STD-810G, Method 514.5, Proc 1, Cat 14
- Shock, Crash** MIL-STD-810G, Method 516.5, Proc 1 and Proc V
- EMC** MIL-STD-461
- Water** IP66

### 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.