

Sentry-X2 is a MIL-Rugged system, powered by the NVIDIA® Jetson AGX Orin™ Industrial module.

Designed for mission critical applications in harsh environments, the Sentry-X2 is a MIL-SPEC certified AI system for computing at the tactical edge. The NVIDIA® Jetson AGX Orin™ Industrial is a 2048-core GPU capable of 248 TOPS, ideal for advanced AI and machine learning applications. The Sentry-X2 includes 8 GMSL2 camera inputs suitable for complex vision systems, as well as 10Gb, 2.5Gb, and 1Gb Ethernet, dual USB 3.2 ports, and a wide array of I/O options.



Tested to MIL-STD specifications for shock and vibration and utilizing IP67 rated D38999 connectors for data integrity, Sentry-X2 is designed to meet the strict requirements of military, aerospace, and heavy industrial applications.

FEATURES

- ✓ 8x GMSL2 Camera Inputs
- ✓ 3x Ethernet Ports: 10GbE, 2.5GbE, 1GbE
- ✓ Up to 4TB NVMe Storage
- ✓ Tested to IP67, MIL-STD-810H

SPECIFICATIONS

Compatibility	Pre-integrated with NVIDIA® Jetson AGX Orin™ Industrial	AI Performance	248 TOPS
GPU	2048-core NVIDIA® Ampere architecture GPU with 64 Tensor Cores	CPU	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
Memory	64GB 256-bit LPDDR5 (+ ECC) 204.8GB/s	Dimensions	200mm x 180mm x 125mm (7.87" x 7.09" x 4.92")
Video Output	1x DisplayPort 1.4 Output 4K @ 60HZ	Networking	1x 10GBASE-T Ethernet (10GbE) 1x 2.5GBASE-T Ethernet (2.5GbE) 1x 1000BASE-T Ethernet (1GbE)
Camera Inputs	8x GMSL2 Camera Inputs	USB	2x USB 3.2 Ports (10Gbps Capable)
Wireless / Misc Expansion	1x 4TB NVMe WiFi/BT (optional)	Trusted Platform Module (TPM)	SLB9670 TPM2.0 Chipset Hardware TPM Implementation
Input Power/Misc Power Details	MIL-STD-704F Input Power +28V Nominal Operating Voltage (+16V to +50V Range as specified by MIL-STD-704F) EMI/EMC as per MIL-STD-461F/G	GPIO / Serial Interfaces	8x 3.3V GPIO (2x PWM capable) 1x 3.3V, 1A Source pin 2x UART (RS232/422/485 configurable) 1x 3.3V I2C 1x 3.3V SPI 2x 3.3V UART 2x CAN
Operating Temperature	TBD	Weight	TBD
MIL Specifications	Environmental: MIL-STD-810H, DO-160H EMC/EMI: MIL-STD-461G, MIL-HDBK-704F, MIL-HDBK-831	Optional MIL-STD 1553B	1x MIL-STD 1553
Warranty and Support	1 Year Warranty and Free Support		