

Sentry-X2 Mini is a MIL-Rugged system, powered by the NVIDIA® Jetson Orin™ NX 16GB module.

Designed for mission critical applications in harsh environments, Sentry-X2 Mini is a MIL-SPEC certified AI system designed for computing at the tactical Edge. Powered by the NVIDIA® Jetson Orin™ NX 16GB, the Sentry-X2 Mini delivers a compact, deployment-ready form factor purpose-built for aerospace and defense autonomous applications, from uncrewed systems and ISR platforms to autonomous ground vehicles and airborne payloads.



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

FEATURES

- ✓ Flexible I/O: UART, CAN, GPIO
- ✓ Dual Ethernet Ports: 2.5GbE, 1GbE
- ✓ Environmental: MIL-STD-810H, DO-160H, MIL-STD-461G, MIL-STD-704F
- ✓ TPM 2.0 hardware security

SPECIFICATIONS

Compatibility	Pre-integrated with NVIDIA® Jetson Orin™ NX 16GB	AI Performance	157 TOPS
GPU	1024-core NVIDIA® Ampere architecture GPU with 32 Tensor Cores	CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	16GB 128-bit LPDDR5 102.4GB/s	Dimensions	170mm x 172mm x 87mm (6.69" x 6.77" x 3.43")
USB	2x USB 3.2 Ports (10Gbps Capable)	Networking	1x 1000BASE-T Ethernet (1GbE) 1x 2.5GBASE-T Ethernet (2.5GbE)
Storage	1x M.2 M Key (Up to 4TB NVMe)	Wireless Expansion	1x M.2 E Key Wi-Fi/BT (optional)
Video Output	1x DisplayPort 1.4 Output 4K @ 60HZ	Misc I/O	5x 3v3 GPIO (1x PWM capable) 1x 3.3V, 1A Source pin 1x UART (RS232/422/485 configurable) 1x 3.3V I2C 1x 3.3V SPI 2x 3.3V UART
CAN	1x Non-Isolated CAN 2.0b	RTC Battery	SuperCap (No Battery Installed)
Security Processor	TPM 2.0	Input Power/Misc Power Details	- MIL-STD-704F Input Power +28V Nominal Operating Voltage (+16V to +50V Range as specified by MIL-STD-704F) - Designed to EMI/EMC as per MIL-STD-461F/G
Operating Temperature	-20°C to +70°C (-4°F to +158°F)	Weight	1.5 kg (3.3 lb)
Designed to MIL Specifications	Environmental: MIL-STD-810H, DO-160H EMC/EMI: MIL-STD-461G	Warranty and Support	1 Year Warranty and Free Support