# SENTRY-X2 MIL-RUGGED SYSTEM

POWERED BY NVIDIA® JETSON AGX ORIN™ INDUSTRIAL

**PART NUMBER:** ESG630, ESG633

## 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 4x 3G-SDI/HD-SDI/SDI inputs and 2x 3G-SDI/HD-SDI/SDI outputs, suitable for complex vision systems, as well as 10Gb, 2.5Gb, dual USB 3.2 ports, and a wide array of I/O options.

NVIDIA Elite Partner

**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

- ✓ 4x 3G-SDI/HD-SDI/SDI Inputs**
  2x 3G-SDI/HD-SDI/SDI Outputs**
- ✓ 3x Ethernet Ports: 10GbE, 2.5GbE, 1GbE*
- ✓ Tested to IP67, MIL-STD-810H
- ✓ Up to 4TB NVMe Storage

## 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)<br>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)<br>1x 2.5GBASE-T Ethernet (2.5GbE)<br>*1x 1000BASE-T Ethernet (1GbE) (ESG630 only) |
| **** Optional SDI Camera Input** | 4x 3G-SDI/HD-SDI/SDI Inputs<br>2x 3G-SDI/HD-SDI/SDI Outputs | **USB** | 2x USB 3.2 Ports (10Gbps Capable) |
| **Storage** | 1x M.2 M Key (Up to 4TB NVMe) | **Wireless Expansion** | 1x M.2 E Key Wi-Fi/BT (optional) |
| **Trusted Platform Module (TPM)** | SLB9670 TPM 2.0 Chipset<br>Hardware TPM Implementation | **Operating Temperature** | -40°C to +70°C (-40°F to +158°F) |
| **Input Power/Misc Power Details** | MIL-STD-704F Input Power<br>+28V Nominal Operating Voltage<br>(+16V to +50V Range as specified by MIL-STD-704F)<br>Designed to EMI/EMC as per MIL-STD-461F/G | **GPIO / Serial Interfaces** | 10x 3.3V GPIO (2x PWM capable)<br>2x 3.3V, 1A Source pin<br>2x UART (RS232/422/485 configurable)<br>1x 3.3V I2C<br>1x 3.3V SPI<br>2x 3.3V UART<br>2x CAN |
| **Weight** | Min 3.0 KG, Max 3.5 KG (Based on Configuration) | **MIL Specifications** | Environmental: MIL-STD-810H, DO-160H<br>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 |

Specifications subject to change without notice. ©2026 Connect Tech Inc. All trademarks are property of their respective holder. CTIX-00226(0.03) - 2026-03-13

**Connect Tech Inc.** | 489 Clair Rd. W., Guelph ON Canada | **Tel:** 519.836.1291 **Toll:** 800.426.8979 (North America) | **Email:** sales@connecttech.com | **www.connecttech.com**

Authorized Distributor

wdlsystems.com

sales@wdlsystems.com

800-548-2319

919-545-2500

220 Chatham Business Drive
Pittsboro, NC 27312