



Sentry-X is ideal for aerospace and defense applications, or for any market that can benefit from the Jetson AGX Xavier's incredible performance in a rugged enclosure.



Features included in this embedded system are 2x GbE, 3x USB 3.1, 2x HDMI, 2x CAN 2.0b, 1x RS-232, 1x RS-422/485, 1x UART 3.3V TTL, and 8x GPIO.



Sentry-X is tested to meet MIL-STD-810G as well as DO160G for shock and vibration along with ingress protection of IP67.

FEATURES

- ✓ Wide I/O Assortment: 2x GbE, 3x USB 3.1, 2x HDMI, 2x CAN 2.0b, 4x GPI, 4x GPO, 2x RS-232/422/485
- ✓ Ideal for Aerospace and Defense applications
- ✓ Unique docking stations - allows for quick release of Sentry-X compute module
- ✓ Tested to MIL-STD-810G, DO160G for shock & vibration, ingress protection of IP67

SPECIFICATIONS

Module Compatibility	NVIDIA® Jetson AGX Xavier™ - GPU: 512-core Volta GPU with Tensor Cores - CPU: 8-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3 - DL Accelerator: (2x) NVDLA Engines - Vision Accelerator: 7-way VLIW Vision Processor - Encoder/Decoder: (2x) 4Kp60 HEVC/(2x) 4Kp60	Mechanical	System Outer Dimensions: Integrated Compute Module/Dock: 199.7mm x 180mm x 79mm (7.86" x 7.09" x 3.11") Compute Module: 199.7mm x 180mm x 57mm (7.86" x 7.09" x 2.24") Aluminum Structure with Integrated Fanless Heat-sink
System Overview	1x Main Compute Module 1x Quick Release Docking Sled	USB	1x USB 3.1 Gen 2 Type C (With OTG) 2x USB 3.0 at Rear I/O
Ethernet	2x GbE (1000BASE-T)	Video Output	2x HDMI
Serial/UART Communications	2x RS-232/422/485 1x UART 3.3V TTL (Debug)	System Storage	1x 32GB eMMC (on Xavier module) 2x M.2 M-Key NVMe (Internal, Not Accessible)
GPIO	4x Discrete Inputs 5V TTL; 4x Discrete Outputs 5V TTL; Release Date TBD (Requires Custom NVMe Storage Solution)	Flexible Rear IO Module	Rugged IP67 Fischer MiniMax Circular Connectors (Optional D38999, Harsh Environment PC Style, and M8/M12 Builds)
Connectivity	1x Dual-Band 802.11ac WiFi + Bluetooth V5.1	CAN	2x CAN 2.0b
Misc/System IO	1x Dual Purpose Reset/Force Recovery Button	RTC	1x Supercapacitor
Input Power	+11V to +65V DC Input MIL-STD Option Available (+28V), MIL-STD-461F, MIL-STD-704, MIL-STD-1275	Compliance / Certifications	MIL-STD-810G/DO-160G (Thermal, Shock, Vibration, Altitude, Humidity) MIL-STD-461F/DO-160G (EMI/EMC)
IP Rating	IP67	Operating Temperatures	-25°C to +70°C (-13°F to +158°F) (Xavier Module Range)
Weight	6.05 lbs (2.74 kg) – With Compute Module, Dock with no MIL PSU 6.80 lbs (3.08 kg) – With Compute Module, Dock with MIL PSU	Warranty & Support	1 Year Warranty and Free Technical Support