



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

<b>Module Compatibility</b>	<b>NVIDIA® Jetson AGX Xavier™</b> <ul style="list-style-type: none"> <li>GPU: 512-core Volta GPU with Tensor Cores</li> <li>CPU: 8-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3</li> <li>DL Accelerator: (2x) NVDLA Engines</li> <li>Vision Accelerator: 7-way VLIW Vision Processor</li> <li>Encoder/Decoder: (2x) 4Kp60   HEVC/(2x) 4Kp60</li> </ul>	<b>Mechanical</b>	<b>System Outer Dimensions:</b> <ul style="list-style-type: none"> <li><b>Integrated Compute Module/Dock:</b> 199.7mm x 180mm x 79mm (7.86" x 7.09" x 3.11")</li> <li><b>Compute Module:</b> 199.7mm x 180mm x 57mm (7.86" x 7.09" x 2.24")</li> </ul> Aluminum Structure with Integrated Fanless Heat-sink
<b>System Overview</b>	1x Main Compute Module 1x Quick Release Docking Sled	<b>USB</b>	1x USB 3.1 Gen 2 Type C (With OTG) 2x USB 3.0 at Rear I/O
<b>Ethernet</b>	2x GbE (1000BASE-T)	<b>Video Output</b>	2x HDMI
<b>Serial/UART Communications</b>	2x RS-232/422/485 1x UART 3.3V TTL (Debug)	<b>System Storage</b>	1x 32GB eMMC (on Xavier module) 2x M.2 M-Key NVMe (Internal, Not Accessible)
<b>GPIO</b>	4x Discrete Inputs 5V TTL; 4x Discrete Outputs 5V TTL; Release Date TBD (Requires Custom NVMe Storage Solution)	<b>Flexible Rear IO Module</b>	Rugged IP67 Fischer MiniMax Circular Connectors (Optional D38999, Harsh Environment PC Style, and M8/M12 Builds)
<b>Connectivity</b>	1x Dual-Band 802.11ac WiFi + Bluetooth V5.1	<b>CAN</b>	2x CAN 2.0b
<b>Misc/System IO</b>	1x Dual Purpose Reset/Force Recovery Button	<b>RTC</b>	1x Supercapacitor
<b>Input Power</b>	+11V to +65V DC Input MIL-STD Option Available (+28V), MIL-STD-461F, MIL-STD-704, MIL-STD-1275	<b>Compliance / Certifications</b>	MIL-STD-810G/DO-160G (Thermal, Shock, Vibration, Altitude, Humidity) MIL-STD-461F/DO-160G (EMI/EMC)
<b>IP Rating</b>	IP67	<b>Operating Temperatures</b>	-25°C to +70°C (-13°F to +158°F) (Xavier Module Range)
<b>Weight</b>	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	<b>Warranty &amp; Support</b>	1 Year Warranty and Free Technical Support