



PART NUMBERS: SGX001, SGX002, SGX003, SGX007, SGX008, SGX009

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.



ELITE
PARTNER



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 GPIO, 4x GPO, 2x RS-232/422/485
- ✓ Unique docking stations - allows for quick release of Sentry-X compute module
- ✓ Ideal for Aerospace and Defense applications
- ✓ Tested to MIL-STD-810G, DO160G for shock & vibration, ingress protection of IP67

SPECIFICATIONS

| | | | |
|-----------------------------------|--|------------------------------------|--|
| Module Compatibility | NVIDIA® Jetson AGX Xavier™ <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 |

RoHS

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