

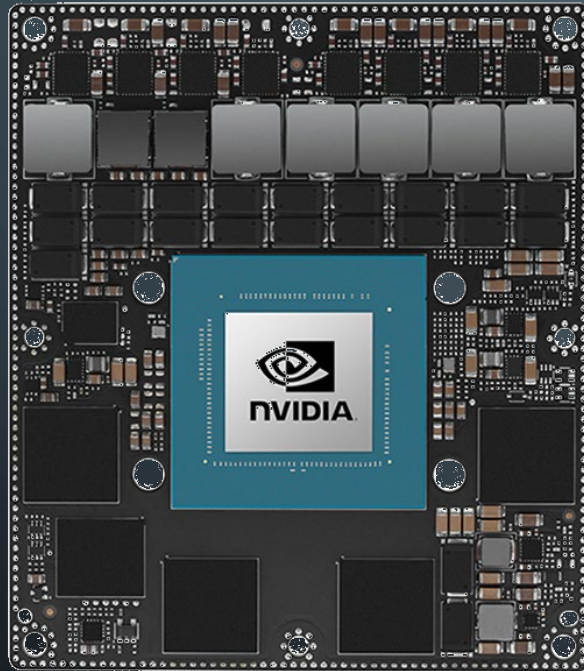


SENSOR PACKAGE

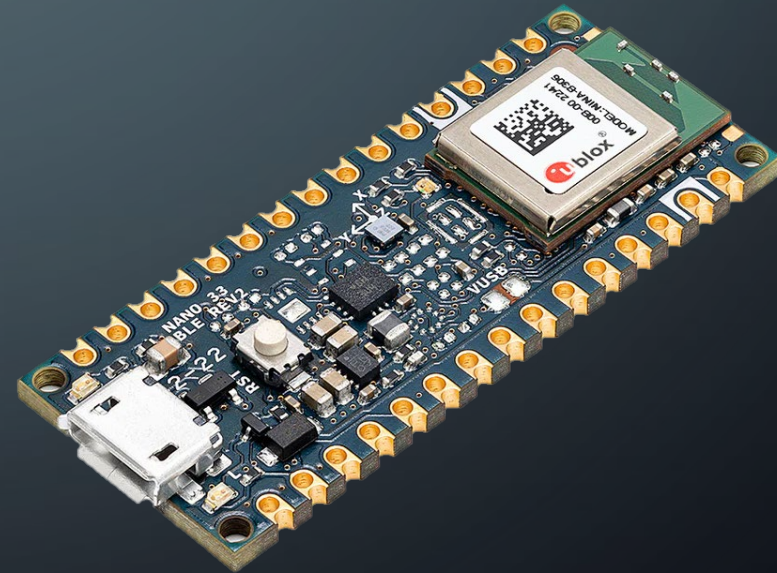
AIMM ICC 2025

Raspberry Pi 4 Model B (x5)

COMPUTING



Jetson AGX Orin Industrial



Arduino Nano 33 BLE Rev2 (x10)

COMPUTING STATS

| | Jetson AGX Orin 64GB | Jetson AGX Orin Industrial |
|------------------------------|--|--|
| AI Performance | 275 TOPS | 248 TOPS |
| Module | 2048-core NVIDIA Ampere architecture GPU with 64 Tensor Cores 12-core Arm Cortex A78AE CPU 64-GB LPDDR5 64-GB eMMC | 2048-core NVIDIA Ampere architecture GPU with 64 Tensor Cores 12-core Arm Cortex A78AE CPU 64-GB LPDDR5 with Inline ECC 64-GB eMMC |
| Operating Temperature | -25° C – 80° C at TTP | -40° C – 85° C at TTP |
| Module Power | 15–60 W | 15–75 W |
| Operating Lifetime | 5 years | 10 years 87K hours @ 85° C |
| Shock | Non-operational: 140G, 2 ms | Non-operational: 140G, 2 ms Operational: 50G, 11 ms |
| Vibration | Non-operational: 3G | Non-operational: 3G Operational: 5G |
| Humidity | Biased, 85°C, 85% RH, 168 hours | :85°C / 85% RH, 1,000 hours, Power ON |
| Temperature Endurance | -20°C, 24 hours 45°C, 168 hours (operational) | -40°C, 72 hours 85°C, 1000 hours (operational) |
| Mechanical | 100 mm x 87 mm | 100 mm x 87 mm |
| Underfill | ~ | SoC Corner Bonding & Component Underfill |
| Production Lifecycle | 7 years (until 2030) | 10 years (until 2033) |

Table 1. Key features of the new Jetson AGX Orin Industrial SOM

CAMERAS

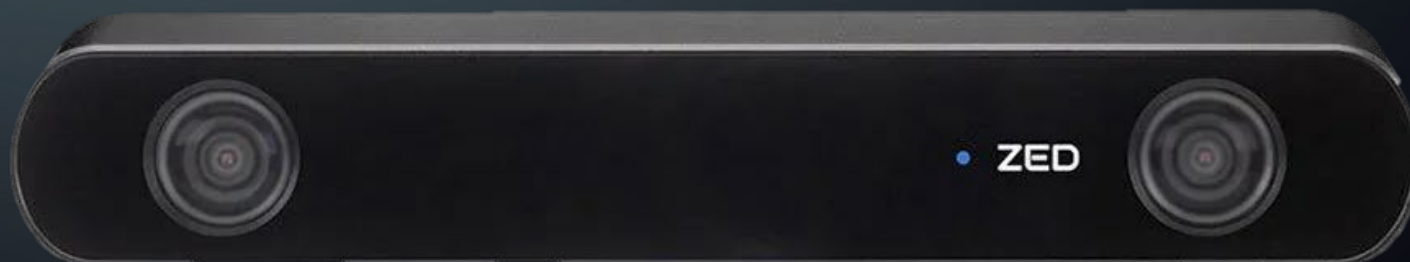


FLIR Boson+ 320

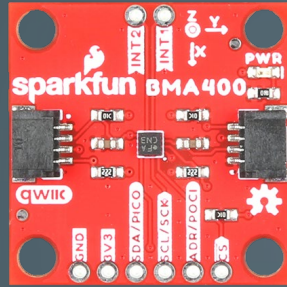
Oak-D Pro W



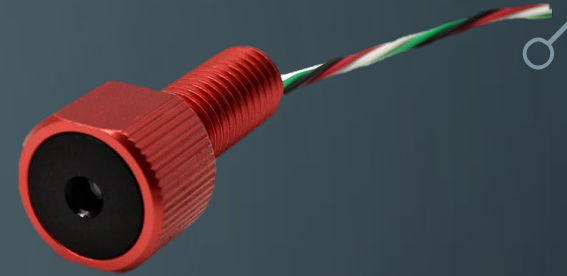
Zed 2i (x2)



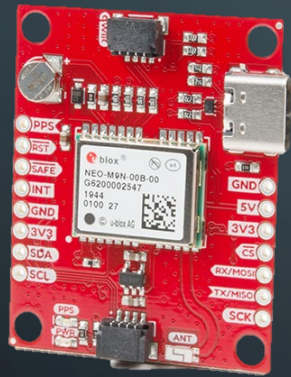
SENSORS



Sparkfun triple axis accelerometer/gyro



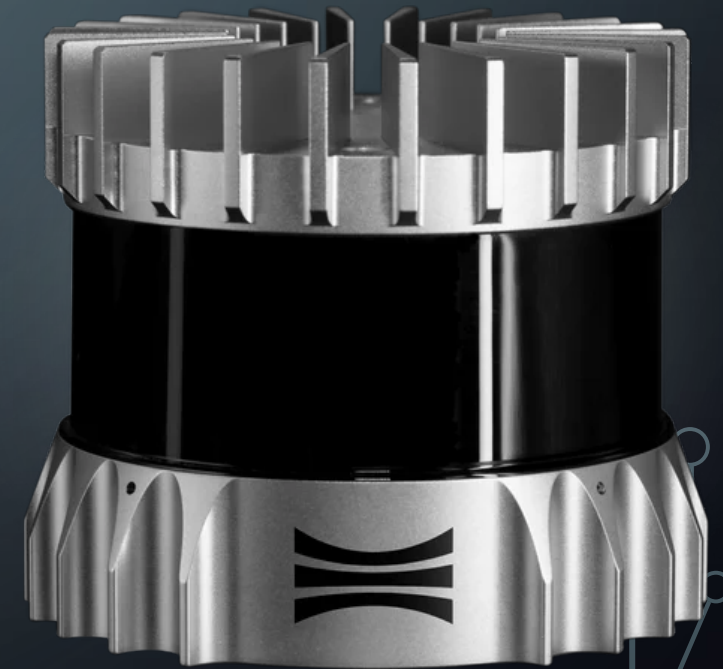
Bar30 High-Resolution 300m Depth/Pressure Sensor (x4)



Sparkfun Breakout NEO M9N GPS



SIMRAD HALO20 Radar



Ouster OS0-32 LiDAR

COMMUNICATIONS



SX-PCEAX-M2-SP
Wi-Fi 6E Module (x2)



AP-800AX-US

AND MORE...

Endura 30in 12V (x2)



Malone EcoLight Kayak Trailer



1000 lb Rubber Bumper Plate Set

AND EVEN MORE...



Battery (x3)



Wiring and Waterproofing (x2)