



RUGGED AR5 MISSION COMPUTER

Military-Grade Tactical Computer

The **Rugged AR5** is a compact, fully sealed mission computer built for harsh, SWaP-sensitive environments. Its conduction-cooled chassis with a removable sealed CPU/SSD tray and 38999 MIL-circular connectors is tested to MIL-STD-810G and DO-160G for shock, vibration, thermal, altitude, and humidity, ensuring reliable operation in demanding defense and aerospace platforms.

Powered by an Intel® E3845 quad-core processor up to 1.91 GHz with 8 GB ECC memory and a 128 GB SSD, the AR5 delivers efficient edge performance in a 1.10" x 4.70" x 5.60", 2-lb enclosure. With 8x Gigabit Ethernet ports (remote boot and PoE), 2x USB 3.0, 2x USB 2.0, RS-232, 8254 timer/counters, and I²C support, it provides versatile I/O for tactical networking and control systems in space-constrained platforms.

- Application-specific design
- Tested to meet military standards
- Built in the USA

Featured Specifications

Processor

Intel E3845 CPU - 1.91GHz
Quad-core - 10W TDP

Power

28VDC

RAM

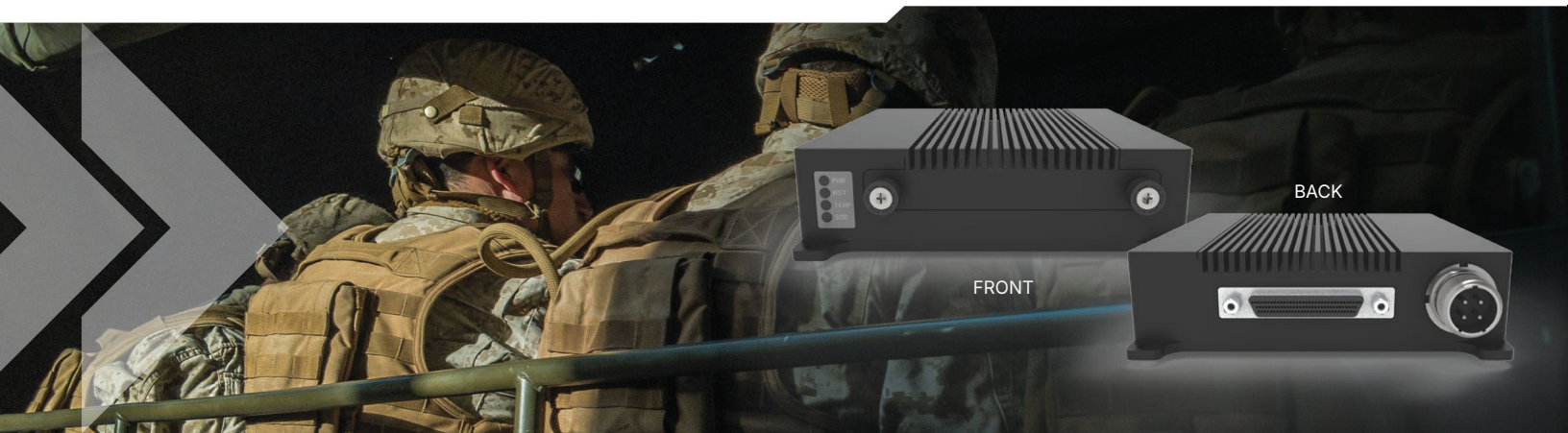
8GB

Storage

1x 128GB Solid State Drive

Chassis Type

Aircraft-Grade Aluminum



Technical Specifications

Dimensions

Height: 1.10 inches, Width: 4.70 inches, Depth: 5.60 inches

Processor

Intel E3845 CPU - 1.91GHz Quad-core - 10W TDP

RAM

8GB

Storage

1x 128GB Solid State Drive

Power

28VDC

I/O

8x Gb Ethernet; 2x USB 2.0, 1x USB 3.0; Audio; Video Displayport, 2x PCIe

Ethernet

8x GbE Ports

Chassis

Rugged MIL-Spec Chassis

Environmental Specifications

Operational Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Storage Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Humidity

MIL-STD-810F, Method 507.4: 95% RH, 48 hours at 40 – 65°C

Altitude

MIL-STD-810F, Method 500.4: 12,500 ft operation; 40,000 ft transport

Vibration

MIL-STD-810G, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

Shock

MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

EMC

MIL-STD-461F: CE & RE emissions

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13000 Danielson St
Poway, CA 92064

