

MILAXON 2000 RUGGED EMBEDDED COMPUTER





MILAXON 2000 - front

MILAXON 2000 - back

ABOUT

The MilAxon 2000 Slim Profile Rugged Military Computer is powered by the 5th Generation Broadwell-U Dual Core processor from Intel. The excellent thermal efficiency of Intel's14nm Broadwell lithography allows the MilAxon to provide profuse computing power in a slim profile chassis. The MilAxon 2000 can independently support 3 LCD displays (5 if two displays are cloned) with 4k resolution each. This makes the slim and compact MilAxon 2000 ideal for multiple monitor consoles where space is at a premium and heat is a concern. The MilAxon 2000 has a fanless operating temperature from -25°C to 70°C. Why fanless? Because fans fail, which leads to further cascading failures in the system. Rugged Science focuses on fanless, solid state designs to ensure premium operation for critical systems in challenging environments. Internally, the MilAxon 2000 rugged computer features 2 mini-PCle sockets, which allow for easy adaptation for mobile applications that require 3G/4G/LTE/WiFi/GPRS/ UMTS support.

Like all Rugged Science Military Division Products, the MilAxon 2000 features an embedded CPU and chipset that are on Intel's embedded road map.

This translates to guaranteed support for a minimum of 7 years, in many cases much longer with industrially popular chips. Embedded road map chipsets can be a key obsoletion management tool when planning new military computing systems

FEATURES

- 5th Generation Intel® SoC (Broadwell-U)
- Supports 4K Resolution, up to 3 independent displays
- Fanless, -25°C to 70°C Operating Temperature
- 2 Gigabit LAN
- 2 Front-access SSD/ HDD Tray
- 2 Mini PCle support 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- 2 External SIM Card Socket
- 16 DIO: 8 DI / 8 DO

MILAXON 2000 SPECIFICATIONS

Processor 5th Generation Intel® Core™ i7/ i5/ i3 U-Series Processor (Broadwell-U) **BIOS** AMI

SIO IT8786E

2 DDR3L 1333/1600 MHz SO-DIMMs, up to 16GB Memory

I/O Ports

Serial Interface 4x COM RS-232/ 422/ 485

USB 4x USB 3.0, 2x USB 2.0 (3 External, 1 Internal)

LED Indicators Power, HDD, PoE Isolated DIO 16x (8 DI, 8 DO)

2x SIM Card socket (external) SIM Card

Expansion

2 Mini PCle Socket: Mini PCle 1 supports PCIe/ USB/ External SIM

1 supports PCIe/ USB/ External SIM/ mSATA

Graphics

Graphics Controller Intel® HD Graphics 6000

DVI-D: Up to1920 x 1080 @ 60Hz **Display Interfaces** Display Port 1: 3840 x 2160 @ 60Hz

Display Port 2: 3840 x 2160 @ 60Hz

Storage

2x SATA III - 6Gbps (bottom load) SATA 1x SATA III (Mini PCIe Type, 6Gbps)

1x SATA II - 3Gbps DOM

CFast slot, Push In-Out ejector Storage Expansion

2x front-access 2.5" SSD/HDD tray

Ethernet

Intel® I218 Gigabit LAN supports iAMT 9.5 LAN 1

Intel® I210 Gigabit LAN LAN 2

Power

Input Voltage 6 to 36V, DC-in

3-pin Terminal Block : V+, V-, Frame Ground **Power Interface** Mini-DIN 4-pin

16 mode (internal)

Remote Switch 3-pin Terminal Block: On, Off, IGN

Surge Protection Up to 80V/1ms Transient Power

Mechanical

Ignition Control

Chassis/Mounting Aluminum housing, Wall mount by bracket, DIN rail mount

Size (W x D x H) 10.1" x 5.6" x 1.9" (257mm x 141mm x 48mm)

Weight 4.6 lbs. (2.1Kg)

Environmental

Operating Temperature -13°F to 158°F (-25°C to 70°C)

Storage Temperature -40°F to 185°F (-40°C to 85°C)

Humidity 5 to 95%, Non-condensing

Relative Humidity 95% at 70°C

EMC CE, FCC, EN 50155, EN 50121-3-2

Additional

Trusted Platform Module Infineon SLB9635, LPC Interface (optional)

Watchdog Timer Reset: 1 to 255 sec/min per step **Smart Management** Wake-on-LAN, PXE supported

HW Monitor Temperature & voltage auto-throttle on CPU overheat

Audio Codec Realtek ALC892, 5.1 Channel HD Audio

Audio Interface 1x Line-out, Mic-in

Designed to Meet

MIL-STD-901D Shock

MIL-STD-461E EMI (Electromagnetic Interference)

MIL-STD-167-1A Vibration

MIL-STD-810G Temperature/Immersion/Humidity

