

MILAXON 2100 RUGGED EMBEDDED COMPUTER





MILAXON 2100 - front

MILAXON 2100 - back

ABOUT

The MilAxon 2100 features up to 6 Gigabit Ethernet LAN ports, 4 of which are IEEE 802.3at compliant to provide Power-over-Ethernet (PoE+). PoE+ can be a significant advantage in reducing cabling cost for military networks by providing both data and power connections to end PoE+ capable devices such as IP cameras, network IP thermostats, or other network sensors. The MilAxon 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 lithograghy allows the MilCortex to provide profuse computing power in a slim profile chassis. The MilAxon 2100 can independently support 3 LCD displays (5 if two displays are cloned) with 4k resolution each. This makes the slim and compact MilAxon 2100 ideal for multiple monitor consoles where space is at a premium and heat is a concern. The MilAxon2100 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 2100 rugged computer features 2 mini-PCIe 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 2100 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

- 6 GbE LAN ports with 4 Power-over-Ethernet (PoE) Ports
- 5th Generation Intel® SoC (Broadwell-U)
- Supports 4K Resolution, up to 3 independent displays
- Fanless, -25°C to 70°C Operating Temperature
- 2 Front-access SSD/ HDD Tray
- 2 Mini PCle support 3G/ 4G/ LTE/ WiFi/ GPRS/ UMT
- 16 Isolated DIO: 8 DI / 8 DO

MILAXON 2100 SPECIFICATIONS

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System

System	
Processor	5th Generation Intel [®] Core™ i7/ i5/ i3 U-Series Processor (Broadwell-U)
BIOS	AMI
SIO	IT8786E
Memory	2 DDR3L 1333/1600 MHz SO-DIMMs, up to 16GB
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)
SIM Card	2x SIM Card socket (external)
Expansion	
	2 Mini PCIe 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
Storage Expansion	CFast slot, Push In-Out ejector
	2x front-access 2.5" SSD/HDD tray
Ethernet	
LAN 1	Intel® I218 Gigabit LAN supports iAMT 9.5
	Intel® I210 Gigabit LAN
LAN 3-6 (PoE)	Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
Power	
Input Voltage	6 to 36V, DC-in
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground Mini-DIN 4-pin
Ignition Control	16 mode (internal)
Remote Switch	3-pin Terminal Block : On, Off, IGN
Surge Protection	Up to 80V/1ms Transient Power
Mechanical	
	Aluminum housing Wall mount by bracket DIN rail mount
Chassis/Mounting Size (W x D x H)	Aluminum housing, Wall mount by bracket, DIN rail mount 10.1" x 5.6" x 1.9" (257mm x 141mm x 48mm)
Weight	4.6 lbs. (2.1Kg)
Environmental	
	10°E to 150°E / 05°C to 70°C)
Operating Temperature	-13°F to 158°F (-25°C to 70°C) 40°F to 185°F (-40°C to 85°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C) 5 to 95% Non-condensing
Humidity Relative Humidity	5 to 95%, Non-condensing 95% at 70°C
EMC	95% at 70 C 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	
	Shook
MIL-STD-901D MIL-STD-461E	Shock EMI (Electromagnetic Interference)
MIL-STD-461E MIL-STD-167-1A	Vibration
MIL-STD-107-1A MIL-STD-810G	Temperature/Immersion/Humidity
MIL-310-010G	iomporature/inimeision/iniumiuity



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