

MILAXON 2000 OPERATOR INTERFACE PANELS







ABOUT

Our MILAXON OIPs (Operator Interface Panels) are designed for tough environments, and feature an innovative and cost-effective "box-in-box" design. The OIP is powered by a Rugged Science MILAXON 2000 Series Embedded Computer, which is internally mounted within the OIP enclosure. This "box-in-box" design keeps price and obsolescence issues in check.

MILAXON Series embedded computers are powered by 5th Gen Intel® SoC Broadwell-U processors and a maximum 16 Gb RAM. They come with 2 Copper LANs standard, and can be configured for 2 Fiber Ethernet LANs (optional).

The aluminum chassis of MILAXON Series OIPs doubles as a heat sink to passively disperse heat to the ambient environment. The MILAXON Series Operator Interface Panels features a 19-inch LED backlit displays with 1280 x 1024 resolution, a 4:3 aspect ratio, and 250 nits standard brightness for a clear and sharp display.

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 Cards
- 16 DIO: 8 digital In, 8 digital Out
- Configurable Ignition Power Control
- Military Qualified:

MIL-STD-901D Shock
MIL-STD-461F Vibration
MIL-STD-167-1A EMI

MILAXON 2000 OIP SPECIFICATIONS



For sales and service: Rugged Science 53 Loveton Circle - Suite 203

Sparks, MD 21152

System

Internal Embedded Computer

MILAXON 2000 Series

Processor

5th Gen Intel® Core™ i7, I5, I3 series Quad-Core processors (Broadwell-H)

Chipset Intel® Mobile QM87

BIOS AMI

Memory 16GB Max., 2 204-pin SO-DIMM Socket

DDR3 1066 | 1333 | 1600 MHz, DDR3L 1066 | 1333 MHz

External I/O

Serial Interface

3 COM RS-232, 1 COM RS-232 / 485 / 422

USB Inline Mouse 4 External USB (4 USB 3.0 or 2 USB3.0+2 USB2.0)
Sealed USB inline pointing device on front bezel

OSD Brightness Control

Four button Screen Brightness Control and OSD Menu 8 Digital Input, 8 Digital Output

Isolated Digital I/O PS/2 (optional)

PS/2 keyboard & mouse

Touchscreen

5-wire Resistive Touch (standard) Optional: Capacitive, IR, SAW

Ethernet

Copper LAN 1

1 Intel® 82579LM Gigabit LAN, Wake on LAN, PXE Support; Intel® AMT 8.0

Copper LAN 2

1 Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support

2 100 Base FX Fiber LAN via commercial ST connector (Flber Gigabit Ethernet option via SFP Module also available)

Expansion

Mini-PCle

1x Mini PCle socket (PCle + USB + SIM card socket)

1x miniPCle socket (PCle +USB), compatible with mSATA

Graphics, Video & Audio

Fiber LAN 1, 2 (optional)

Display Size

19-inch Diagonal Viewing Area

Resolution/Aspect

1280 x 1024 resolution, 4:3 Aspect ratio

Backlight

LED-backlit

Graphics Chipset

Intel® GMA HD 4000

Display Memory
Display Interfaces

Shared Memory, Up to 1.7GB

Display Port 1

DB-15 VGA / 1920 x 1200 Max. DVI-D | 1920 x 1200 Max.

Display Port 2

2560 x 1600 Max. 1920 x 1200 Max.

LVDS

Dual Channel 24-bit | 1920 x 1200 Max.

2 SATA III 6Gbps, 1 SATA II 3Gbps DOM

Audio

Realtek ALC892, 5.1 Channel HD Audio with 93 dB Speaker Line-out,

Mic-in, Front Audio Header

Power

Power Input

90-264 VAC, 60Hz, 1 Ø via MIL-Circular Power Connector

Storage

SATA

Storage Expansion

CFast Slot - Push In/Out Ejector

Mechanical

Size (W x D x H)

473mm x 457mm x 200mm (18.63" x 18.0" x 7.86")

Weight

43.3 lbs. (without bracket)

Chassis

0.125" Aluminum Alloy 5052-H32 chemically treated IAW MIL-DTL-5541,

Type II, Class 1A

Environmental

Operating Temperature Storage Temperature

0°C to 50°C (32°F to 122°F) -25°C to 85°C (-13°F to 185°F)

Additional

Trusted Mobile Platform

Infineon SLB9635, LPC Interface (Optional)

Watchdog Timer

Reset: 1 to 255 sec / min Per Step

HW Monitor

Temperature | Voltages Auto Throttling Control When CPU Overheats

Designed to Meet

MIL-STD-901D MIL-STD-461F

Vibration

Shock EMI

MIL OTD 167.1A

MIL-STD-167-1A