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MILCORTEX 2000 OPERATOR INTERFACE PANELS





ABOUT

Our MILCORTEX OIP (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 MILCORTEX 2000 Series Embedded Computer, which is internally mounted within the OIP enclosure. This "box-in-box" design keeps price and obsolescence issues in check.

MILCORTEX Series embedded computers are powered by 5th Gen Intel® Quad Core™i7 series processors and a maximum 32 Gb RAM. They come with 2 Copper LANs standard, and can be configured for 2 Fiber Ethernet LANs (optional).

The aluminum chassis of MILCORTEX Series OIPs doubles as a heat sink to passively disperse heat to the ambient environment. The MILCORTEX Series Operator Interface Panels features a 19, 20.1, or 24-inch LED backlit displays with 1280 x 1024 resolution, a 5:4 aspect ratio, and 250 nits standard brightness for a clear and sharp display.

FEATURES

- Rugged solid state fanless design
- 5th Gen Intel® Quad-Core™ i7 Series Processors (up to 3.6 GHz)
- Ideal for shipboard control applications
- Backlit LED Touchscreen Displays
- 19, 20.1, and 24-inch models available
- 16x General Purpose I/O
- 8x Isolated Digital I/O
- Display Memory up to 1.7 Gb (shared)
- PS/2 Keyboard & Mouse
- Military Qualified:

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

MILCORTEX 2000 OIP SPECIFICATIONS

RUGGED

For sales and service: Rugged Science 52 Loveton Circle - Suite 203

Sparks, MD 21152

System

Internal Embedded Computer

MILCORTEX 2000 Series

Processor

5th Gen Intel® Quad-Core™ i7 series processors (up to 3.60 GHz)

Chipset Intel® Mobile QM87

BIOS AMI

Memory 32GB Max., 2 204-pin SO-DIMM Sockett

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

Isolated Digital I/O PS/2 (optional)

8 Digital Input, 8 Digital Output 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, 20.1, 24-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 DB-15 VGA / 1920 x 1200 Max. DVI-D | 1920 x 1200 Max.

Display Port 1

2560 x 1600 Max.

Display Port 2

1920 x 1200 Max.

Dual Channel 24-bit | 1920 x 1200 Max.

LVDS

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

Mic-in, Front Audio Header

Audio Power

Power Input

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

Storage

SATA/SSD

1 SATA II Ports at 3.0Gb/s for 2.5" SSD

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)

Humidity

-25°C to 85°C (-13°F to 185°F) 10% to 95%, Non-Condensing

Additional

Trusted Mobile Platform

Infineon SLB9635, LPC Interface (Optional)

Watchdog Timer HW Monitor Reset: 1 to 255 sec / min Per Step
Temperature | Voltages Auto Throttling Control When CPU Overheats

Designed to Meet

Shock MIL-STD-901D

Vibration

EMI

MIL-STD-461F MIL-STD-167-1A

www.ruggedscience.com