

MilCortex 20.1" OPERATOR INTERFACE PANEL



ABOUT

The 20.1" MILCORTEX OIP, Operator Interface Panel, is designed for tough environments, and feature an innovative and cost-effective "box-in-box" design. The OIP is powered by a Rugged Science MILCORTEX Series Embedded Computer, which is internally mounted within the OIP enclosure. This "box-in-box" design keeps price and obsolescence issues in check.

The MILCORTEX Series embedded computer is powered by Intel® Xeon Core i7/ i5/ i3/ Skylake/Kaby Lake processors and a maximum 32GB RAM. They come with 2 Copper LANs standard, and can be configured for 2 Fiber Ethernet LANs (optional).

The aluminum chassis of the 20.1" MILCORTEX OIP doubles as a heat sink to passively disperse heat to the ambient environment. The 20.1" MILCORTEX Operator Interface Panel features a 20.1" LED backlit display with 1600 x 1200 resolution, a 4:3 aspect ratio, and 300 nits standard brightness for a clear and sharp display.

FEATURES

- Rugged solid state fanless design
- Quad Core Intel® Xeon® or Core™ i7/i5/i3 CPUs (Skylake/Kaby Lake)
- Ideal for automated status board & shipboard thin-client machinery control applications
- 20.1" 5-Wire 1600x1200 Touchscreen Display
- Up to 32 GB RAM
- SSD Expandability
- Optional Fiber LAN
- Military Qualified:
 - MIL-STD-901D Shock
 - MIL-STD-461F Vibration
 - MIL-STD-167-1A EMI

System

Internal Embedded Computer	Rugged Science MILCORTEX 3000 Series
Processor	Quad Core Intel® Xeon® or Core™ i7/i5/i3 CPUs (Skylake/Kaby Lake)
Chipset	Intel® C236
Memory	2x DDR4 2133MHz SO-DIMM, up to 32GB

I/O Interface

External I/O	Configurable to match embedded computer I/O
Inline Mouse	Sealed USB inline pointing device on front bezel
OSD Brightness Control	4-button control and OSD menu

Ethernet

Fiber LAN	100 Base FX Fiber LAN via ST connector (Fiber Gigabit Ethernet option also available)
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Graphics & Video

Display Size	20.1" diagonal viewing area, 5W resistive touch w/ 2.8mm glass
Resolution	1600 x 1200
Aspect Ratio	4:3
Backlight	LED backlit
Brightness	300 nits
Colors	16.7M Colors (24bit)
Contrast Ratio	5000:1

Storage

SATA	(2) SATA III (6Gbps)
mSATA	SATA III (Mini PCIe Type, 6Gbps)

Expansion

SUMIT	(2) SATA III (6Gbps)
Mini PCIe	SATA III (Mini PCIe Type, 6Gbps)

Power

Input Voltage	120-Volt AC
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Audio

Codec	Realtek ALC892, 5.1 channel HD audio with 93 dB speaker Line-out, Mic-in, Front audio header
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Mechanical

Size (W x D x H)	648mm x 180mm x 457mm (25.5" x 7.09" x 18")
Weight	43.3 lbs. (without bracket) 49.1 lbs. (with bracket)
Design	Aluminum chassis and enclosure

Environmental

Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-20°C to 85°C (-4°F to 185°F)
Humidity	0 to 95%

Additional

Trusted Mobile Platform	Infineon SLB9635, LPC Interface (Optional)
Watchdog Timer	Reset: 1 to 255 sec / min Per Step

Designed to Meet

Shock	MIL-STD-901D, Grade A
EMI	MIL-STD-461G
Vibration	MIL-STD-167-1A
Power	MIL-STD-1399

Our 20.1-inch OIP features a MILCORTEX 3000 Series embedded computer with an Intel® Core processor and up to 32Gb RAM.

