MILCORTEX 24"
Operator Interface Panel

OVERVIEW

The 24" 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 24" MILCORTEX OIP doubles as a heat sink to passively disperse heat to the ambient environment. The 24" MILCORTEX Operator Interface Panel features a 24" LED backlit display with 1920 x 1080 resolution, a 16:9 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.
- 24" 5-Wire 1920x1080 Touchscreen Display
- Up to 32 Gb RAM
- SSD Expandability
- Optional Fiber LAN
- Military Qualified:
     Shock: MIL-STD-901D, Grade A
     Vibration: MIL-STD-167-1A
     EMI: MIL-STD-461G
     Power: MIL-STD-1399

MILCORTEX 24" SPECIFICATIONS

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

I/O Interface	
External I/O	Configurable to match 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)

Graphics and Video	
Display Size	24" Diagonal viewing area, 5W resistive touch w/2.8mm glass
Resolution	1920 x 1080
Aspect Ratio	16:9
Backlight	LED Backlit
Brightness	300 nits
Colors	16.7M Colors (24 bit)
Contrast Ratio	5000: 1

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

Expansion	
SUMIT	SUMIT A&B Connector
Mini PCIe	(2) Mini PCIe

Power	
Input Voltage	120 Volt AC

Audio	
Codec	Realtek ALC892, 5.1 channel HD audio w/ 93 dB speaker. Line-out, mic-in, front audio header

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