

MILSYNAPSE 20.1"

OPERATOR INTERFACE PANEL



The 20.1" MILCORTEX OIP, Operator Interface Panel, by Rugged Science 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

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 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
- 20.1" 5-Wire 1920x1080 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

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MILSYNAPSE 20.1"

SPECIFICATIONS

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/OIn-Line Mouse

Configurable to match embedded computer I/O
Sealed USB in-line pointing device on front bezel

OSD Brightness Control 4-button control and OSD menu

Ethernet

Fiber LAN via ST connector (Fiber Gigabit Ethernet option also available)

Graphics & Video

Display Size 20.1" diagonal viewing area

Resolution 1920 x 1080

Aspect Ratio 16:9

BacklightLED backlitBrightness300 nits

Colors 16.7M Colors (24 bit)

Contrast Ratio 5000:1

Storage

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

Expansion 6Gbps)

SUMIT A&B Connector

Mini PCle (2) Mini PCle

Power

Input Voltage 120-Vot AC

Audio

Codec Realtek ALC892, 5.1 channel HD audio with 93 dB

speaker Line-out, Mic-in, Front audio header

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/Steel enclosure

Ennvironmental

Operating Temperature 0°C to 50°C (32°F to 122°F)
Storage Temperature -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

Storage Temperature 0 to 95%

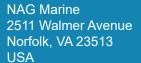
Designed to Meet

 Shock
 MIL-STD-901D

 EMI
 MIL-STD-461G

 Vibration
 MIL-STD-167-1A

 Power
 MIL-STD-1399



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