

## MilSynapse 19" OPERATOR INTERFACE PANEL



### ABOUT

The 19" MILSYNAPSE 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 MILSYNAPSE 3000 Series Embedded Computer, which is internally mounted within the OIP enclosure. This "box-in-a-box" design keeps price and obsolescence issues in check.

MILSYNAPSE 3000 Series embedded computers are powered by an Intel® Core™ i7/ i5/ i3/ Celeron® U-series Processor (Skylake-U, up to 4M Cache, 3.4GHz). This guarantees hardware support for seven years from the date of release.

The aluminum chassis of the 19" MILSYNAPSE OIP doubles as a heat sink to passively disperse heat to the ambient environment. The 19" MILSYNAPSE Operator Interface Panel features a 19" LED-backlit display with 1280 x 1024 resolution, a 5:4 aspect ratio, and 250 nits standard brightness for a clear and sharp display. An AC power connector kit is available.

### FEATURES

- Rugged solid state fanless design
- Intel® Core™ i7/ i5/ i3/ Celeron® U-series Processor (Skylake-U, up to 4M Cache, 3.4GHz)
- Ideal for automated status board & shipboard thin-client machinery control applications
- Up to 16 Gb RAM
- Fiber I/O (single fiber SC)
- Fiber connector kit (optional)
- AC power connector kit (optional)
- Onboard Media Converter

## System

<b>Internal Embedded Computer</b>	Rugged Science MILSYNAPSE 3000 Series
<b>Processor</b>	Intel® Core™ i7/ i5/ i3/ Celeron® U-series Processor (Skylake-U, up to 4M Cache, 3.4GHz)
<b>Chipset</b>	Intel® SoC (Skylake)
<b>Memory</b>	(1) DDR4 2133MHz SO-DIMM, up to 16GB

## I/O Interface

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

## Ethernet

<b>Fiber LAN</b>	100 Base FX Fiber LAN via ST connector (Fiber Gigabit Ethernet option also available)
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## Graphics & Video

<b>Display Size</b>	19" diagonal viewing area
<b>Resolution</b>	1280 x 1024
<b>Aspect Ratio</b>	5:4
<b>Backlight</b>	LED backlit
<b>Graphics Chipset</b>	Intel® HD Graphics 520

## Storage

<b>SATA</b>	(2) SATA III (6Gbps)
<b>mSATA</b>	SATA III (Mini PCIe Type, 6Gbps)

## Expansion

<b>SUMIT</b>	(2) SATA III (6Gbps)
<b>Mini PCIe</b>	SATA III (Mini PCIe Type, 6Gbps)

## Power

<b>Input Voltage</b>	SUMIT A&B Connector
<b>Protection</b>	(2) mini PCIe

## Audio

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

<b>Size (W x D x H)</b>	473mm x 457mm x 200mm (18.63" x 18.0" x 7.86")
<b>Weight</b>	43.3 lbs. (without bracket) 49.1 lbs. (with bracket)
<b>Design</b>	Aluminum chassis/Steel enclosure

## Environmental

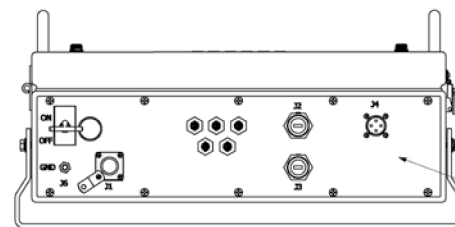
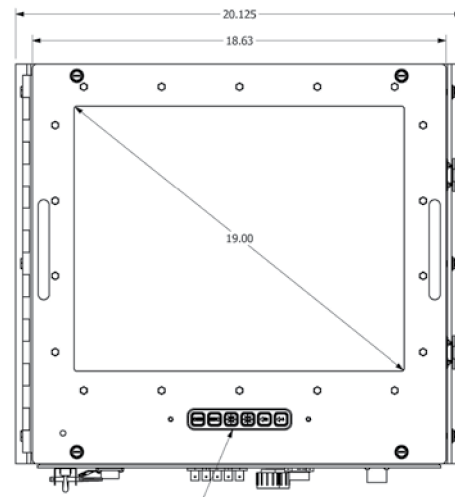
<b>Operating Temperature</b>	0°C to 50°C (32°F to 122°F)
<b>Storage Temperature</b>	-25°C to 85°C (-13°F to 185°F)

## Additional

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

## Designed to Meet

<b>Shock</b>	MIL-STD-901D
<b>EMI</b>	MIL-STD-461F
<b>Vibration</b>	MIL-STD-167-1A



**Our 19-inch OIP features a MILSYNAPSE 3000 Series embedded computer with an Intel® Quad Core processor and up to 16 Gb RAM.**

