

MILSYNAPSE 19"

All-In-One Military PanelPC VDC



OVERVIEW

Our MilSynapse 19in Rugged All-in-One (AIO) Military PanelPC VDC meets all military standards for shock, vibration, and electromagnetic interference. They are tough, powerful, and ready to deploy.

The 19in MilSynapse AIO features an environmentally sealed, IP65 enclosure, a fanless design, and a tough, corrosion resistant housing, with a wide 19" diagonal viewing area. The AIO delivers powerful Intel® Core™ i7/ i5/ i3/ Celeron® CPUs, and up to 16 GB RAM.

All MilSynapse AIO Military Panel PCs offer convenient on-screen controls, auto-dimming, and integrated Intel HD graphics as standard.

FEATURES

- Intel® Core™ i7/ i5/ i3/ Celeron® U-series Processor
- 5-wire Resistive Touch Screen
- 16GB, 1 DDR4 2133 MHz RAM
- Intel® HD Graphics 520
- Rugged, fan-less, -0°C to 55°C operating temperature
- 1280x1024 resolution
- Meets military shock, vibration, and EMI standards

System	
Processor	Intel Core i7/i5/ i3/ Celeron® U-series Processor (Skylake-U, up to 4M Cache, 3.4 GHz)
Internal Embedded Motherboard	Rugged Science MILSYNAPSE 3000 Series
Memory	1 DDR4 2133MHz SO-DIMM, up to 16GB
Chipset	Intel® SoC (Skylake)
Input / Output	
External I/O	Configurable to match embedded computer I/O
OSD Brightness Control	5/-button control and OSD menu
Ethernet	
LAN 1,2	100 Base FX Fiber LAN via ST connector
LAN 3	Intel 1219 Gigabit LAN supports iAMT 11.0
Graphics & Video	
Display Size	19" Diagonal Viewing Area
Aspect Ratio	5:4
Resolution	1280 x 1024
Touchscreen	5-wire resistive touchscreen
Graphics Chipset	Intel® HD Graphics 520
Storage	
SATA	2 SATA III (6 Gbps)
mSATA	1 SATA III (Mini PCIe Type, 6 Gbps)
Expansion	
SUMIT	SUMIT A&B Connector
Mini PCIe	(2) mini PCIe
Power	
Input Voltage	DC POWER: Nominal of 24V, 18 to 32 input range
Fusing	1x internal BEL fuse rated for 4A (externally accessible)
Audio	
Codec	Realtek ALC892, 5.1 channel HD audio with 93 dB speaker Line-out, Mic-in, Front audio header
Mechanical	
Size (WxHxD)	19" x 15.72" x 6.86"
Weight	32 lbs. (without bracket) 38.1 lbs (with bracket)
Design	Aluminum chassis / Steel enclosure
Environmental	
Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Additional	
Trusted Mobile Platform	Infineon SLB9635, LPC Interface (Optional)
Watchdog Timer	Reset: 1 to 255 sec / min per step
Shock Qualification	MIL-STD-901D
Vibration Qualification	MIL-STD-167-1A
EMI Qualification	MIL-STD-461E (CE102, CS101, CS114, CS116, RE101, RE102, RS101, RS103)