

MILSYNAPSE 3000

RUGGED EMBEDDED COMPUTER



OVERVIEW

With a 6th Gen. Intel® Core™ i7 SoC (Skylake-U) engine and fanless -40°C to 70°C operating temperatures, this ultra-compact embedded PC features versatile and scalable SUMIT expansion as well as 12V to 36V power input allowing for easy adaptability and integration. Additionally, the MILSYNAPSE-3000 offers smart manageability, extremely rugged reliability, and flexible one-stop customization services. The MILSYNAPSE-3000 is the ideal choice for any performance driven application where durability and size are a factor.

FEATURES

- 6th Generation Intel® Core™
- i7/ i5/ i3 series SoC (Skylake-U)
- Fanless design, -40°C to 70°C Wide Operating Temperature
- 12V to 36V DC Power Input
- DDR4 2133MHz memory, up to 16GB
- Onboard DVI-D and Display Port display interfaces support up to 4K resolution
- 4 Independent GigE LAN, iAMT 11.0 supported
- 4 USB 3.0
- 5 COM RS-232/ 422/ 485

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SPECIFICATIONS

System

Processor	Intel Core® i7/i5/i3 Celeron® U-Series Processor (Skylake-U)
Chipset	Inte® SoC (Skylake)
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 2133 /1866 MHz, SO-DIMM, up to 16GB

I/O Interface

Serial	5x COM RS-232/422/485
USB	4x USB 3.0 (External), Up to 4x USB 2.0 (internal)
DIO	16x GPIO: 8x DI , 8x DO
LED	Power, HDD
SIM Card	1x SIM Card Socket (internal)

Expansion

Mini PCIe	2x Mini PCIe Socket : 1x Full-size PCIe / USB / Internal SIM , 1x full-size for PCIe / USB / Optional mSATA
Summit A,B	2 SUMIT Slots (Optional)

Graphics

Chipset	Intel® HD Graphics 520
Interface	DVI-D : Up to 1920 x 1200 @ 60 Hz, DisplayPort : Up to 4096 x 2304 @ 60 Hz

Storage

SATA	2x SATA III (6Gbps) support S/W RAID function
mSATA	1x SATA III (Mini PCIe Type, 6 Gbps)
Storage Device	1x 2.5" SSD / HDD Tray

Audio

Audio Codec	Realtek ALC892, 5.1 Channel HD Audio
Audio Interface	1 Mic-In , 1 Line Out

Ethernet

LAN 1	Intel 1219 GigE LAN supports iAMT 11.0
LAN 2-4	Intel 1210 GigE LAN
LAN 5	Optional by SUMIT expansion

Power

Input	12V to 36V, DC-in
Interface	3-pin Terminal Block : V+, V-, Frame Ground
Remote Switch	3-pin terminal block : On, Off, IGN
Surge Protection	Up to 80V/1ms Transient Power

Mechanical

Dimensions	150mm x 106mm x 64mm (5.9" x 4.2" x 2.5")
Weight	Varies by Configuration
Mounting	Wallmount by bracket, 2U rackmount (optional)

Environment

Operating Temp.	-40°C to 70°C (-40°F to 158°F)
Storage Temp.	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 70°C