

MILSYNAPSE 3020 RUGGED EMBEDDED COMPUTER



ABOUT

With a 6th Gen. Intel® Core™ i7 SoC (Skylake-U) engine and fanless -40°F to 185°F operating temperatures, this all-in-one 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-3020 offering smart manageability, extremely rugged reliability, and flexible one-stop customization services, the MILSYNAPSE-3020 is the ideal choice for any performance driven application where durability and size are a factor.

FEATURES

- 6th Generation Intel® Core™ i7/ i5/ i3 U-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
- Supports 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- Ultra-Slim 1U Height

System

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

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 (internal)
LED	Power, HDD
SIM Card	1x SIM Card Socket (internal)

Expansion

Mini PCIe	2x Mini PCIe socket: 1x Full-Size PCIe for PCIe/USB/Internal SIM 1x full-Size for PCIe/USB/Optional mSATA
SUMIT A, B	2x SUMIT Slot

Graphics

Chipset	Intel® HD 520
Interface	DVI-D up to 1920 x 1200 @ 60Hz, Display Port up to 4096 x 2304 @ 60Hz

Storage

SATA	2x SATA III (6GBps), supports S/W RAID function
mSATA	1x SATA III (Mini PCIe type, 6GBps)
Storage Device	1x 2.5" SSD/HDD bracket, internal

Audio

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

Ethernet

LAN 1	Intel® I219 Gigabit LAN supports iAMT 11.0
LAN 2-4	Intel® I210 Gigabit 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 & Environmental

Dimensions (L x W x H)	150mm x 106mm x 64mm (5.9" x 4.2" x 2.5")
Weight	CALL
Mounting	Wallmount by bracket, 2U rackmount (optional)
Operating/Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% at 70°C