

## MILSYNAPSE 3510 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-3510 offering smart manageability, extremely rugged reliability, and flexible one-stop customization services, the MILSYNAPSE-3510 is the ideal choice for Industry 4.0 and 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 85°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
- 2 Independent GigE LAN, iAMT 11.0 supported
- 4 USB 3.0
- 2 COM RS-232/ 422/ 485
- Supports 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS

## System

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

## I/O Interface

<b>Serial</b>	2x COM RS-232/ 422/ 485 (Optional up to 9 COM by SUMIT expansion)
<b>USB</b>	4x USB 3.0 (external), Up to 4x USB 2.0 (internal)
<b>DIO</b>	16x GPIO: 8x DI, 8x DO (internal)
<b>LED</b>	Power, HDD
<b>SIM Card</b>	1x SIM Card Socket (internal)

## Expansion

<b>Mini PCIe</b>	2x Mini PCIe socket: 1x Mini PCIe for PCIe/USB/Internal SIM/Optional mSATA 1x Mini PCIe for PCIe/USB/Optional mSATA
<b>SUMIT A, B</b>	2x SUMIT Slot

## Graphics

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

## Storage

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

## Audio

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

## Ethernet

<b>LAN 1</b>	Intel® I219 Gigabit LAN supports iAMT 11.0
<b>LAN 2-4</b>	Optional by Mini PCIe/SUMIT expansion
<b>LAN 5</b>	Optional by SUMIT expansion

## Power

<b>Input</b>	12V to 36V, DC-in
<b>Interface</b>	3-pin Terminal Block : V+, V-, Frame Ground
<b>Remote Switch</b>	3-pin terminal Block: ON/OFF/IGN
<b>Surge Protection</b>	Up to 80V/1ms Transient Power

## Mechanical & Environmental

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