

# SPC-6000

Intel Atom® x6425RE Processor (Elkhart Lake), Ultra-Compact Fanless Embedded Box PC, 1 GigE LAN, 1 2.5G LAN, 2 USB 3.1, 4 COM, 1 External SIM, 12V DC-in, -40°C to 70°C Extended Temperature



## Features

- Quad Core Intel Atom® x6425RE processor (Elkhart Lake) delivers up to 55% faster compute and up to 2.7X better 3D graphics performance than the former generation solution
- Fanless, -40°C to 70°C operating temperature
- DDR4 3200MHz memory, up to 32GB
- DVI-I and DisplayPort dual display supports up to 4K resolution
- 1 independent 2.5GigE LAN supports Intel® TCC and TSN for real-time data synchronization
- 1 independent Gigabit Ethernet Controller supports 10/100/1000 Mbps data transfer
- 2 USB 3.1, 2 USB 2.0, 4 COM RS-232/422/485
- External Nano SIM socket supports 5G/WiFi/4G/3G/LTE/GPRS/UMTS
- Supports TPM 2.0



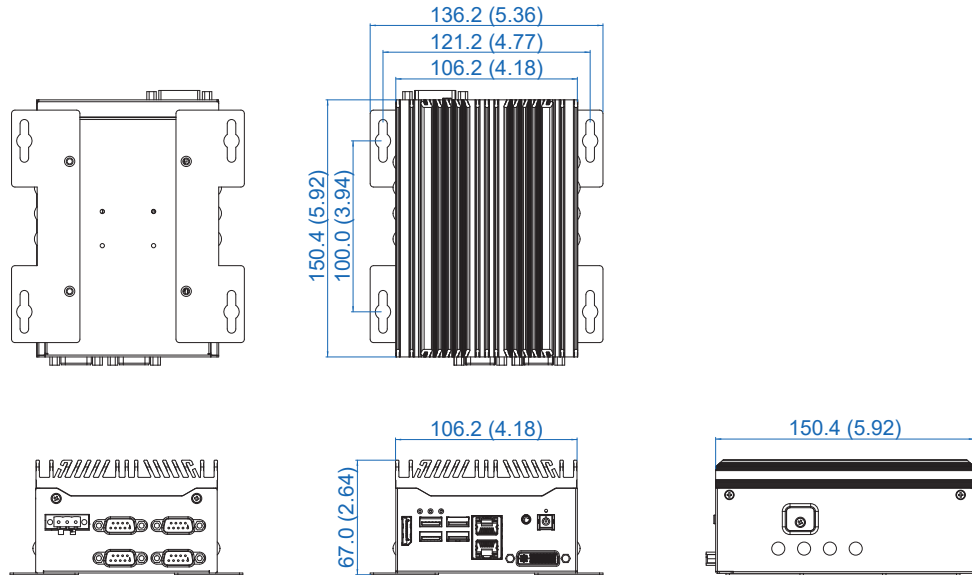
## Specifications

System	
Processor	Intel Atom® x6425RE Processor (Elkhart Lake)
Chipset	Intel® SoC
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 3200MHz SO-DIMM, up to 32GB
I/O Interface	
Serial	4 COM RS-232/422/485(ESD 8kV)
USB	<ul style="list-style-type: none"> <li>▪ 2 USB 3.1 (External)</li> <li>▪ 2 USB 2.0 (External)</li> </ul>
LED	HDD, WLAN, Power, WWAN
SIM Card	1 External Nano SIM Card Socket
Expansion	
M.2	<ul style="list-style-type: none"> <li>▪ 1 M.2 Key B Socket (3042/3052)</li> <li>▪ 1 M.2 Key E Socket (2230)</li> </ul>
Graphics	
Graphics Processor	Intel® UHD Graphics for 10th Gen Intel® Processors
Interface	Dual Display : <ul style="list-style-type: none"> <li>▪ DVI-I : Up to 3840 x 2160 @60Hz</li> <li>▪ DisplayPort : Up to 4096 x 2160 @60Hz</li> </ul>
Storage	
M.2	1 M.2 Key M Socket (2280, PCIe x2/SATA)
Audio	
Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	Line-out
Ethernet	
LAN 1	Intel® Ethernet Controller I210 supports GigE LAN
LAN 2 (2.5G)	Intel® Ethernet Controller I225 supports 2.5GigE LAN

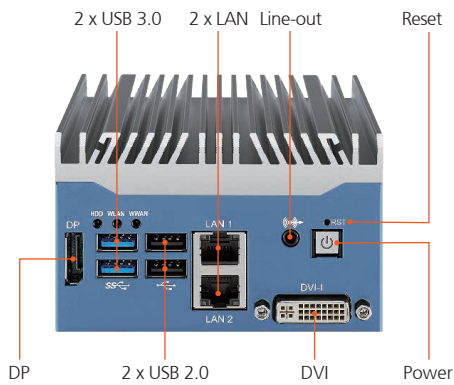
Power	
Power Input	12V DC-in
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Others	
TPM	Infineon SLB9670 supports TPM 2.0, SPI Interface
Watchdog Timer	Reset: 1 to 255 sec./min. Per Step
Smart Mgmt.	Wake on LAN
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
Software Support	
OS	Windows 10, Linux
Mechanical	
Dimensions (W x L x H)	106.2mm x 150.4mm x 67.0 mm (4.18" x 5.92" x 2.64")
Weight	1.4 kg (3.1 lb)
Mounting	<ul style="list-style-type: none"> <li>▪ Wallmount by mounting bracket</li> <li>▪ DIN Rail Mount (Optional)</li> </ul>
Environment	
Operating Temperature	-40°C to 70°C (-40°F to 157°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% @70°C
Shock	<ul style="list-style-type: none"> <li>▪ IEC 60068-2-27</li> <li>▪ SSD : 50G @wallmount, Half-sine, 11ms</li> </ul>
Vibration	<ul style="list-style-type: none"> <li>▪ IEC 60068-2-64</li> <li>▪ SSD : 5Grms, 5Hz to 500Hz, 3 Axis</li> </ul>
EMC	CE, FCC, EN50155, EN50121-3-2

## Dimensions

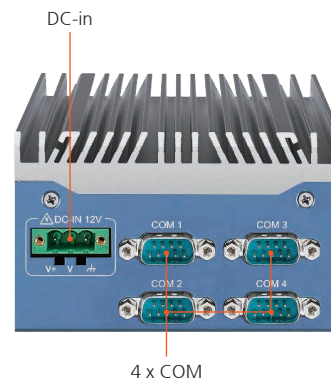
Unit : mm/ inch



## Front I/O



## Rear I/O



## Order Information

<b>SPC-6000</b>	SPC-6000, 1 GigE LAN, 1 2.5G LAN, 2 USB 3.1, 4 COM, 1 External SIM, 12V DC-in
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### Accessories

<b>DDR4 32G</b>	Certified DDR4 32GB 3200MHz RAM
<b>DDR4 16G</b>	Certified DDR4 16GB 3200MHz RAM
<b>DDR4 8G</b>	Certified DDR4 8GB 3200MHz RAM
<b>DDR4 4G</b>	Certified DDR4 4GB 3200MHz RAM
<b>PWA-100W-12V</b>	100W, 12V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block
<b>M.2 Storage Module</b>	M.2 Key M/Key B PCIe Storage Module
<b>5G Module</b>	5G Module with Antenna
<b>4G Module</b>	4G/GPS Module with Antenna
<b>WiFi &amp; Bluetooth</b>	WiFi & Bluetooth Module with Antenna
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### Optional Software

<b>VHub AI Developer</b>	AI Development Kit
<b>VHub ROS</b>	AMR Development Kit
<b>VHub EtherCAT</b>	I/O Control Platform