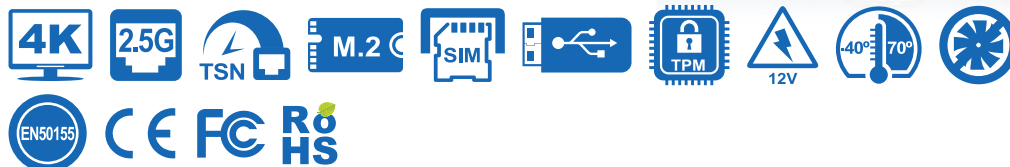


# SPC-6000



## Intel Atom® x6425RE Processor (Elkhart Lake) Ultra-compact Fanless Embedded Box PC

- 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® Time Coordinated Computing (TCC) and Time Sensitive Networking (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
- 12V DC Power Input
- Supports TPM 2.0
- Optional One-Stop AIoT Solution Service supports OpenVINO based AI accelerator and advanced Edge AI applications



### Smart Retail



### Factory Automation



### Traffic Vision



### Robotic Control



# 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
OS	Windows 10, Linux

## Graphics

Graphics Processor	Intel® UHD Graphics for 10th Gen Intel® Processors
Interface	Dual Display : - DVI-I : Up to 3840 x 2160 @60Hz - DisplayPort : Up to 4096 x 2160 @60Hz

## Ethernet

LAN 1	Intel® Ethernet Controller I210 supports GigE LAN
LAN 2 (2.5G)	Intel® Ethernet Controller I225 supports 2.5GigE LAN

## Audio

Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	Line-out

## Storage

M.2	1 M.2 Key M Socket (2280, PCIe x2/SATA)
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## I/O Interface

Serial	4 COM RS-232/422/485(ESD 8kV)
USB	- 2 USB 3.1 (External) - 2 USB 2.0 (External)
LED	HDD, WLAN, Power, WWAN
SIM	1 External Nano SIM Card Socket

## Expansion

M.2	- 1 M.2 Key B Socket (3042/3052, PCIex2/USB3(Default)/USB2) - 1 M.2 Key E Socket (2230, PCIe/USB)
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## 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.

## Mechanical

Dimensions	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	- Wallmount by mounting bracket - DIN Rail Mount (Optional)

## Environment

Operating Temp.	-40°C to 70°C (-40°F to 157°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	- IEC 60068-2-27 - SSD : 50G @wallmount, Half-sine, 11ms
Vibration	- IEC 60068-2-64 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN50155, EN50121-3-2

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# Order Information

Model	GigE LAN	2.5G LAN	USB	COM	SIM	DC-in
SPC-6000	1	1	4	4	1 (External)	12V

## Accessories

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

# Dimensions & Drawing

Unit : mm (inch)

