

SPC-6000

2.5GigE

VHub

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 VHub One-Stop AIoT Solution Service supports OpenVINO based AI accelerator and advanced Edge AI applications

Smart Retail



Factory Automation



Traffic Vision



Robotic Control



intel partner Gold



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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) - 1 M.2 Key E Socket (2230)
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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

Optional Software

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

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)

