

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 40% faster compute and up to 2X 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 Software Ignition Power Control and TPM 2.0
- Optional VHub One-Stop AIoT Solution Service supports OpenVINO based AI accelerator and advanced Edge AI applications

Smart Retail



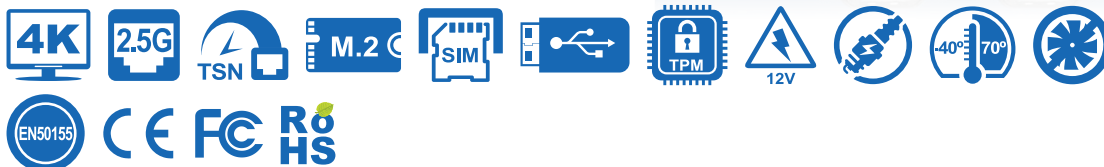
Factory Automation



Traffic Vision



Robotic Control



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 32EU |
| Interface | Dual Display : - DVI-I : Up to 3840 x 2160 @60Hz - DisplayPort : Up to 4096 x 2160 @60Hz |

Ethernet

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|--------------|---|
| LAN 1 | Intel® Ethernet Controller I210 supports GigE LAN |
| LAN 2 (2.5G) | Intel® Ethernet Network Connection GPHY215 supports 2.5GigE LAN |

Audio

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|-----------------|--------------------------------------|
| Audio Codec | Realtek ALC892, 5.1 Channel HD Audio |
| Audio Interface | Line-out |

Storage

| | |
|------|------------------------------------|
| M.2 | 1 M.2 Key M Socket (2280, PCIe x2) |
| SATA | 1 SATA III (6Gbps) |

I/O Interface

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|--------|--|
| 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

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|-----|---|
| M.2 | - 1 M.2 Key B Socket (3042/3052) - 1 M.2 Key E Socket (2230) |
|-----|---|

Power

| | |
|------------------|---|
| Power Input | 12V DC-in |
| Power Interface | 3-pin Terminal Block : V+, V-, Frame Ground |
| Ignition Control | Software, 16-mode |

Others

| | |
|----------------|---|
| TPM | Infineon SLB9670 supports TPM 2.0, SPI Interface |
| Watchdog Timer | Reset : 1 to 255 sec./min. per step |
| 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% @85°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 | 6 | 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 3200 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)

