

PBC

1000

VHub

Intel Atom® x6211E Processor (Elkhart Lake)

Ultra-compact Fanless Embedded Box PC



Intelligent Control



- Intel Atom® x6000 Series Processor delivers up to 40% faster compute and up to 2X better 3D graphics performance than the former generation solution
- Small form factor, ultra-compact design
- Fanless, -40°C to 70°C Operating Temperature
- 2 GigE LAN, 2 USB 3.0, 2 COM, M.2 Key B, M.2 Key E
- SIM Socket for WiFi/5G/4G/LTE/GPRS/UMTS
- Optional VHub AIoT Solution Service supports OpenVINO based AI accelerator and advanced Edge AI applications

Energy Management



M2M



Alcom
electronics

Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33

info@alcom.be | www.alcom.be

Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands

Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl



Vecow

Specifications

System

Processor	Intel Atom® x6211E Processor (Elkhart Lake)
BIOS	AMI
SIO	IT8659E
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	1 DisplayPort : Up to 4096 x 2160 @60Hz

Ethernet

LAN 1	Microchip LAN7430 supports GigE LAN
LAN 2	Microchip LAN7430 supports GigE LAN

Audio

Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out

Storage

SATA	1 SATA III (6Gbps)
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I/O Interface

Serial	- 1 COM RS-232/422/485 - 1 COM RS-232
USB	2 USB 3.0
LED	Power, HDD, WLAN, WWAN
SIM Card	1 External SIM Card Socket

Expansion

M.2	- 1 M.2 Key B (2280) - 1 M.2 Key E (2230)
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Power

Power Input	12V DC-in
Power Interface	2-pin Terminal Block : V-, V+

Others

Watchdog Timer	Reset : 1 to 255 sec./min. per step
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	126.0mm x 43.5mm x 78.5mm (4.96" x 1.74" x 3.09")
Weight	0.5 kg (1.1 lbs)
Mounting	- Wallmount by mounting bracket - DIN Rail Mount (Optional)

Environment

Operating Temperature	-40°C to 70°C (-40°F to 158°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	- 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	USB 3.0	COM	DisplayPort	SIM Socket
PBC-1000	2	2	2	1	1

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-60W-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 2-pin Terminal Block
DIN-RAIL	DIN Rail Mounting Kit
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)

