

# PBC

# 1000

# VHub

Intel Atom® x6211E Processor (Elkhart Lake)  
Ultra-compact Fanless Embedded Box PC



^ Intelligent Control



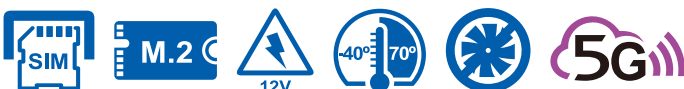
- Intel Atom® x6000 Series Processor delivers up to 40% faster compute and up to 2X better 3D graphics performance than the former generation solution
- Small form factor, ultra-compact design
- Fanless, -40°C to 70°C Operating Temperature
- 2 GigE LAN, 2 USB 3.0, 2 COM, M.2 Key B, M.2 Key E
- SIM Socket 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

intel  
partner  
Gold  
IoT Solutions



# 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	Realtek RTL8119I supports GigE LAN
LAN 2	Realtek RTL8119I 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, PCIe x2/SATA/USB3(Default)/USB2) - 1 M.2 Key E (2230, PCIe/USB)
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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)

