

# EPBC 1000

Intel Atom® x6211E Processor (Elkhart Lake)  
2.5" Pico-ITX Embedded Single Board Computer



▲ In-Vehicle Infotainment



- Dual-core Intel Atom® x6211E Processor (Elkhart Lake), TDP 6W
- 2.5" Pico-ITX compact size, Small Form Factor (SFF), measure only 100 x 72 mm
- Supports fanless -40°C to 70°C Operation
- 1 DDR4 3200MHz SO-DIMM, up to 32GB
- DisplayPort supports up to 4K resolution
- 2 GigE LAN, 2 USB 3.1, 2 COM
- SIM Socket for 5G/WiFi/4G/LTE/GPRS/UMTS
- Expansion : M.2 Key B, M.2 Key E

▼ Intelligent Control



▲ Factory Automation

intel  
partner  
Gold



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

## I/O Interface

Front I/O	<ul style="list-style-type: none"> <li>- 2 RJ45 Connector</li> <li>- 2 USB Connector</li> <li>- 1 DisplayPort Connector</li> <li>- 1 SIM Card Socket</li> <li>- 1 Reset Button</li> <li>- 1 Power LED</li> <li>- 1 HDD LED</li> <li>- 1 WLAN LED</li> <li>- 1 WWAN LED</li> </ul>
Internal I/O	<ul style="list-style-type: none"> <li>- 1 DDR4 SO-DIMM Socket</li> <li>- 1 M.2 Key B Socket (2280, PCIe x2/SATA/USB3(Default)/USB2)</li> <li>- 1 M.2 Key E Socket (2230, PCIe/USB)</li> <li>- 1 SATA Data Connector</li> <li>- 1 SATA Power Connector</li> <li>- 1 Power Connector</li> <li>- 2 COM Header (1 RS-232/422/485, 1 RS-232)</li> <li>- 1 USB 2.0 Header</li> <li>- 1 GPIO Header</li> <li>- 1 Audio Mic-in and Line-out Header</li> </ul>

## Storage

SATA	1 SATA III (6Gbps)
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## Expansion

M.2	<ul style="list-style-type: none"> <li>- 1 M.2 Key B (2280, PCIe x2/SATA/USB3(Default)/USB2)</li> <li>- 1 M.2 Key E (2230, PCIe/USB)</li> </ul>
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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	100.0mm x 72.0mm (9.34" x 2.83")
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## Environment

Operating Temp.	-40°C to 70°C
Storage Temp.	-40°C to 85°C
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
EMC	CE, FCC

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## Packing List

EPBC-1000	x1
Driver CD	x1
Cable Kit	
- USB 2.0 Cable	x1
- COM Port Cable	x2
- SATA Data Cable	x1
- SATA Power Cable	x1
- Audio Cable	x1

## Order Information

Model	GigE LAN	USB 3.0	DisplayPort	SIM Socket
EPBC-1000	2	2	1	1

## Accessories

75-VU2HSP0-010	Heat Spreader for EPBC-1000
75-VU2HSK0-010	Heat Sink for EPBC-1000
61-13Q1009-0DA	COM Port Cable
61-193102U-156	USB 2.0 Cable
61-13B0707-386	SATA Data Cable
61-1470022-005	SATA Power Cable (5V only)
61-1300024-39A	Audio Cable

## Dimensions & Drawing

Unit : mm (inch)

