

PBC 2000

Ultra-Slim Fanless Embedded System
with Intel Atom® x7211RE Processor



^ UAV Data Transmission



- Dual-Core Intel Atom® x7211RE Processor delivers notable improvements in CPU and GPU performance
- Small form factor, ultra-compact design
- Fanless, -40°C to 70°C Operating Temperature
- 2 2.5 GigE LAN, 2 USB 3.2, 2 COM, M.2 Key B
- HDMI 2.0 support up to 4K @60Hz resolution
- SIM Socket for WiFi/4G/5G/LTE/GPRS/UMTS
- Support OpenVINO based AI accelerator and advanced Edge AI applications

^ Education Assistive Technology



^ Intelligent Control

intel
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Specifications

System

Processor	Intel® Atom® x7211RE
Chipset	Intel® SoC
BIOS	AMI
SIO	IT8659E
Memory	1 DDR5 4800MHz SO-DIMM, up to 16GB, In-band ECC
OS	Windows 11, Windows 10, Linux

I/O Interface

Serial	2 COM RS-232/422/485
USB	2 USB 3.2 Gen 2
LED	Power, HDD, M.2
SIM Card	1 External SIM Card Socket for 5G/4G/LTE/GPRS/UMTS wireless network

Expansion

M.2	- 1 M.2 Key B (2280/3042/3052, PCIe2/USB3/default USB2) - 1 M.2 Key E (2230, PCIe1/USB2)
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Graphics

Graphics Processor	Intel® UHD Graphics
Interface	1 HDMI 2.0 : Up to 4096 x 2160 @60Hz

Storage

SATA	1 SATA III (6Gbps)
M.2	1 M.2 Key B (2280/3042/3052, PCIe2, share with expansion)

Ethernet

LAN 1	Realtek® RTL8125BI-CG 2.5G LAN
LAN 2	Realtek® RTL8125BI-CG 2.5G LAN

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
Smart Management	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	136.0mm x 44.5mm x 78.5mm (5.35" x 1.75" x 3.09")
Weight	0.6kg (1.3lbs)
Mounting	- Wallmount by mounting bracket - DIN Rail Mount (Optional)

Environment

Operating Temperature	-40°C to 70°C with air flow
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% at 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, ICES, EN50155, EN50121-3-2

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Order Information

Model	2.5 GigE LAN	USB 3.2	HDMI 2.0	SIM	COM
PBC-2000	2	2	1	1	2

Accessories

DDR5 16G	Certified DDR5 16GB 4800MHz RAM
DDR5 8G	Certified DDR5 8GB 4800MHz RAM
PWA-60W-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 2-pin Terminal Block
DIN Rail	DIN-RAIL Kit
M.2 Storage Module	M.2 Key B 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)

