

# PEB-2773



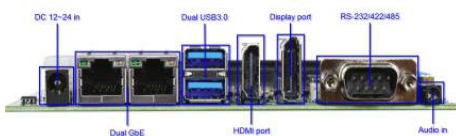
PEB-2773 build with Intel Atom™ processor E3900 series. Not only does it operates with TDP under 12W for fan-less applications, but it also supports industrial temperature range from -40°C to 85°C and wide voltage of power input from 12V to 24V.

Support for six USB 3.0 ports ensures fast data transmission with low-power consumption and support six com port to allow quick and flexible system expansions. Intel I210-IT Gigabit Ethernet controllers provide dual Gigabit Ethernet LAN access via the two RJ45 ports. PEB-2773 can design their own unique systems for Medical, Networking, Panel PC, Kiosk and Digital Signage applications.

## FEATURES

- Supports Intel® Apollo Lake series processor
- Supports DD3L-1866/1600 non-ECC SDRAM on one SODIMM slots, up to 8GB
- Supports Triple displays including DP, HDMI, and Dual channel 24bit LVDS
- Support Mini-PCIe / mSATA (Dual Mini-PCIe slot)
- Support 6\*COM ports(REAR IO support RS-232/422/485)

## REAR I/O



## ORDERING GUIDE

**AB1-3E83Z** (R).PEB-2773. Intel Apollo Lake SoC on Board.EBC.  
w/DDR3L/DP/HDMI/GbE/COM/Audio/USB

## PACKING LIST

**Optional** One SATA cable  
One PEB-2773 Main board  
One Installation CD

## GENERAL

Processor	- Intel® Atom™ Dual/Quad Core E3900 series Processor (up to 12W)
BIOS	AMI uEFI BIOS
Memory	Support up to 8GB DDR3L 1333/1600/1866 MH/z SDRAM on one 204 pin SODIMM socket
Storage Devices	- One SATA III port - One mSATA socket(mini-PCIe)
Watchdog Timer	Programmable watchdog timer, time out period from 1 sec to 255 secs.
Hardware Monitoring	- Temperature (CPU & System) - Voltage (CPU Vcore,12V, 5V, 3.3V, 1.35V)
Expansion Interface	- Two mini-PCIe socket (Full size support mSATA / Half size support WiFi/BT)

## I/O INTERFACE

Audio	- High Definition Audio integrated in Intel SoC - Realtek ALC892 HDA codec - Audio jack on rear I/O with Line-out - Line-in, Line-out, and Mic-in on board pin header
Ethernet	- Dual Intel® I210IT GbE controller - 2x RJ45 connectors on rear I/O
Serial Port	- 1x RS-232/422/485 with DP9 connector on REAR I/O(selected by bios) - 5x RS-232 with on board pin header
USB	- 2x USB 3.0 ports on rear I/O - 4x USB 3.0 ports on board with pitch 3.0 header
GPIO	8-bit configurable controlled by embedded controller
Others	TPM 2.0 on board(optional)

## DISPLAY

Graphic Controller	- Intel® Gen 9 Graphics supports DirectX 12, OpenGL 4.2 / OpenCL 2.0 - Video decode HW acceleration support for H.264, H.265, MPEG2, VC-1/WMV9, JPEG, VP8, and VP9
Display Interface	- LVDS: dual channel 24bit LVDS on board connector, up to 1920x1200 - HDMI: on board connector, resolution up to 3840 x2160 - DP: on board connector, resolution up to 4096x2160

## Mechanical & Environment

Dimension	146(L) x 102(W) mm; 5.74"(L) x 4.02"(W)
Power Supply	DC 12-24V input
Environment	- Operation Temperature: -40°C to 85°C - Storage Temperature: -40°C to 85°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	Over 120,000 hours at 40°C

