





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.

# **FEATURES**

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

## REAR/10



## **ORDERING GUIDE**

AB1-3E83 (R).PEB-2773. Intel Apolloe Lake SoC on Board.EBC. w/DDR3L/DP/HDMI/GbE/COM/ Audio/USB

## PACKING LIST

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

GENERAL	
Processor	Intel® Atom™ Dual/Quad Core E3900 series Processor (up to 12W)
Chipset	N/A
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)
Expansion Interface	Two mini-PCle socket (Full size support mSATA / Half size support WiFi/BT)

1/0 INTERFACE	
Super I/O	N/A
Audio	<ul> <li>High Definition Audio integrated in Intel SoC</li> <li>Realtek ALC892 HDA codec</li> <li>Audio jack on rear I/O with Line-in, Line-out, and Mic-in on board pin header</li> </ul>
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)
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

# **DISPLAY**

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

# 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 80°C - Storage Temperature: -40°C to 80°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	Over 120,000 hours at 40°C





























