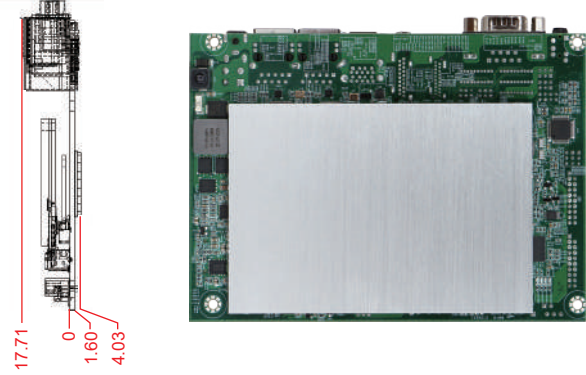
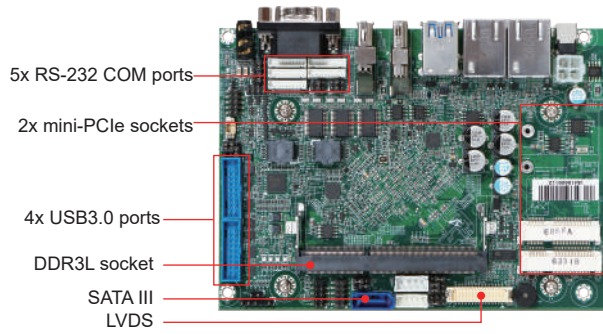




# PEB-2773

Intel Atom® processor E3900 series (formerly Apollo Lake) based 3.5" embedded board with DDR3L SDRAM, Gigabit Ethernet, 2x mini-PCIe sockets, 6x COM ports and 12~24V DC input

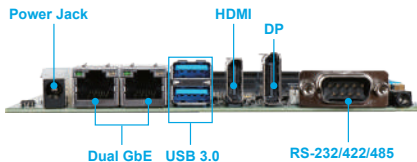


PEB-2773 is built with Intel Atom® processor E3900 series. Not only does it operate with TDP under 12W for fan-less applications, but it also supports industrial temperature range from -40°C to 80°C and wide voltage of power input from 12V to 24V.

## FEATURES

- Supports Intel Atom® processor E3900 series (formerly Apollo Lake)
- Supports DD3L-1866/1600 MT/s non-ECC SDRAM on one SO-DIMM slot, up to 8GB
- Supports triple displays including DP, HDMI, and dual channel 24bit LVDS
- Supports mini-PCIe / mSATA (2x mini-PCIe slots)
- Supports 6x COM ports (rear I/O support RS-232/422/485)

## REAR I/O



## ORDERING GUIDE

AB1-3F65	(R).PEB-2773VG2ATM-E3950. Intel Apollo Lake SoC on Board(X7-E3950,1.6G,4C,2M).EBC. w/DDR3L/DP/HDMI/GbE/COM/Audio/USB
AB1-3F64	(R).PEB-2773VG2ATM-E3940. Intel Apollo Lake SoC on Board(X5-E3940,1.6G,4C,2M).EBC. w/DDR3L/DP/HDMI/GbE/COM/Audio/USB
AB1-3F63	(R).PEB-2773VG2ATM-E3930. Intel Apollo Lake SoC on Board(X5-E3930,1.3G,2C,2M).EBC. w/DDR3L/DP/HDMI/GbE/COM/Audio/USB
AB1-3F85	(R).PEB-2773VG2ATM-N4200. Intel Apollo Lake SoC on Board(N4200,1.1G,4C,2M).EBC. w/DDR3L/DP/HDMI/GbE/COM/Audio/USB
AB1-3F86	(R).PEB-2773VG2ATM-N3350. Intel Apollo Lake SoC on Board(N3350,1.1G,2C,2M).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	Integrated
BIOS	AMI UEFI BIOS
Memory	Support up to 8GB DDR3L 1333/1600/1866 MT/s SDRAM on one 204 pin SO-DIMM socket
Storage Devices	- 1x SATA III port - 1x 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	2x mini-PCIe sockets (Full size support mSATA / Half size support WiFi/BT)

## I/O INTERFACE

Super I/O	N/A
Audio	- High Definition Audio integrated in Intel® SoC - Realtek ALC888S HDA codec - Audio jack on rear I/O with Line-out ; Line-in and Mic-in on board pin header
Ethernet	- Dual Intel® GbE controller - 2x RJ45 connectors on rear I/O
Serial Port	- 1x RS-232/422/485 ports on REAR I/O - 5x RS-232 ports on board pin header
USB	- 2x USB 3.0 on REAR I/O - 4x USB 3.0 on board pin header
GPIO	8-bit configurable controlled by embedded controller

## 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, up to 3840 x2160 - DP: on board connector, up to 4096x2160

## Mechanical & Environment

Dimension	146mm(L) x 102(W) mm; 5.75"(L) x 4.02"(W)
Power Supply	DC 12-24V input
Environment	- Operation Temperature: -40°C~80°C - Storage Temperature: -40°C~85°C - Relative Humidity: 5%~95%, non-condensing
MTBF	Over 120,000 hours at 40°C



\*All information provided is subject to change without notice. Last updated: April 12, 2023