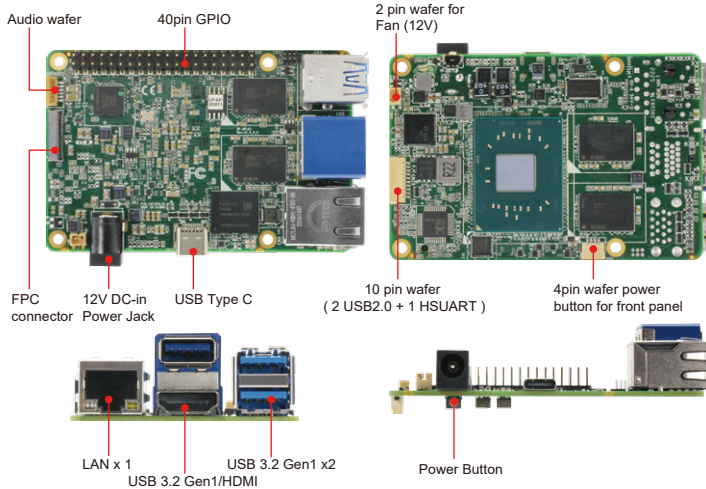


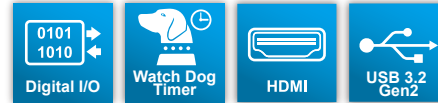
# AEM-APL1E1

SBC Intel Apollo Lake SoC



## Features

- Onboard LPDDR4 Memory up to 8GB
- Onboard eMMC Storage up to 64GB
- Dual displays up to 4K at 60Hz
- Support M.2 2230 E-Key / M.2 2280 M-Key / M.2 3052 B-Key ( via carrier board )
- 40 pin GPIO x 1
- 6 pin wafer for Audio x 1
- TPM 2.0



## Specification

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CPU	A1: Intel® Pentium® N4200, Quad -Core, 2M Cache, 1.1GHz (2.5GHz), 6W A2: Intel® Celeron® N3350, Dual-Core, 2M Cache, 1.1GHz (2.4GHz), 6W, 2
Chipset	Intel Apollo Lake SoC
Memory	N3350 On board 2GB N4200 On board 4GB
BIOS	AMI UEFI BIOS

### Video

Graphic Controller	Intel® Gen9 HD Graphics
Video Memory	Shared Memory
Video Interface	<ul style="list-style-type: none"> <li>• 1 x HDMI 1.4b</li> <li>• 1 x DP 1.2 Via USB Type C connector</li> </ul>

### Storage

Storage	A1: On board 32GB A2: On board 16GB
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### I/O

Ethernet	1 x GbE LAN (RJ45)
Expansion Slot	40 Pin GPIO Header, 1x M.2 (2230/2242/2280) 1 x M.2 (3052,) Via Carrier Board
USB	• 3 x USB 3.2 Gen1 Type A, 2 x USB 2.0,
GPIO	40 Pin GPIO (Via Carrier board)
Audio	Realtek ALC888 High Definition Audio 1 x Line in, 1 x Line out
Other I/O	2 pin wafer for Fan (12V) x1 2 pin wafer for RTC Battery x1 6 pin wafer for Audio (line out + MIC in) x1 10 pin wafer (2 USB2.0 + 1 HUART) x1 HAT 40 pin header x1 4 pin wafer power button for front panel x1 41 pin FPC connector for high speed expand x1 power button x1

## Power Requirement

Power Input	12V DC in
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## Software

OS Support	Windows 10 Full, Windows IOT CORE Yocto Project 3.1 Kernel 5.4, Ubuntu 18.04
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## Mechanical & Environment

Dimension	85 x 56 mm (3.34" x 2.20")
Operating Temp.	0~60°C
Safety	RoHS

## Packing List

- AEM-APL1E1-AX

## Ordering Information

AEM-APL1E1-A1	Intel Pentium N4200, Quad Core, 2M cache, 1.1GHz (2.5GHz), 6W, 4GB RAM, 32GB Storage
AEM-APL1E1-A2	Intel Celeron N3350, Dual Core, 2M cache, 1.1GHz (2.4GHz), 6W, 2GB RAM, 16GB Storage

## Dimension

