

# AND-APL1N1FL series

Intel® Apollo Lake SoC series Networking Microbox Fanless Solution,  
6 x GbE LANs with 3-pair Bypass



## Features

- Intel® Apollo Lake SoC J-series/N-series/E-series
- 1 x SO-DIMM DDR3L-1866 MHz, up to 8GB
- 6 x GbE, 3 x USB
- 1 x Mini PCIe Socket
- 8 x GPIO



## Power Requirement

Power Input 12V / 60W Adapter

## Software

OS Support
 

- Windows 10 IoT Enterprise LTSC Entry
- Linux Kernel 4.4 & above

## Mechanical & Environment

Security TPM 2.0  
 Dimension 280 x 209 x 44mm  
 Operating Temp. 0~40°C (32~104°F)  
 Storage Temp. -20~80°C (-4~176°F)  
 Safety CE, FCC class A

## Specification

### System

CPU	<ul style="list-style-type: none"> <li>• Intel® Apollo Lake SoC J3455 CPU</li> <li>• Intel® Apollo Lake SoC J3355 CPU</li> <li>• Intel® Apollo Lake SoC N4200 CPU</li> <li>• Intel® Apollo Lake SoC N3350 CPU</li> <li>• Intel® Apollo Lake SoC E3950 CPU</li> <li>• Intel® Apollo Lake SoC E3940 CPU</li> <li>• Intel® Apollo Lake SoC E3930 CPU</li> </ul>
Chipset	Intel® Apollo Lake SoC
Memory	1 x SO-DIMM DDR3L-1866 MHz, up to 8GB

### Video

Graphic Controller	Intel® HD Graphics
Video Interface	1 x VGA (1 x internal header)

### Storage

SATA	1 x SATAIII / mSATA (Optional)
CF	1 x CF Card / CFast (Optional)

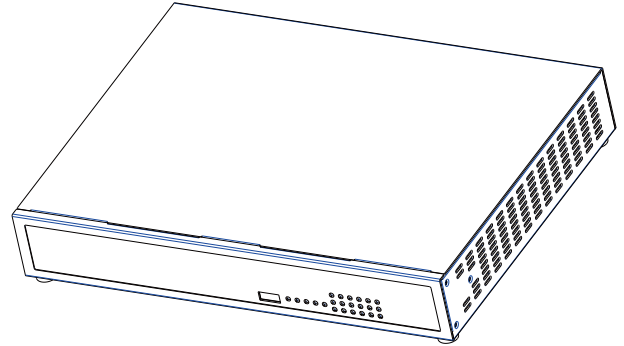
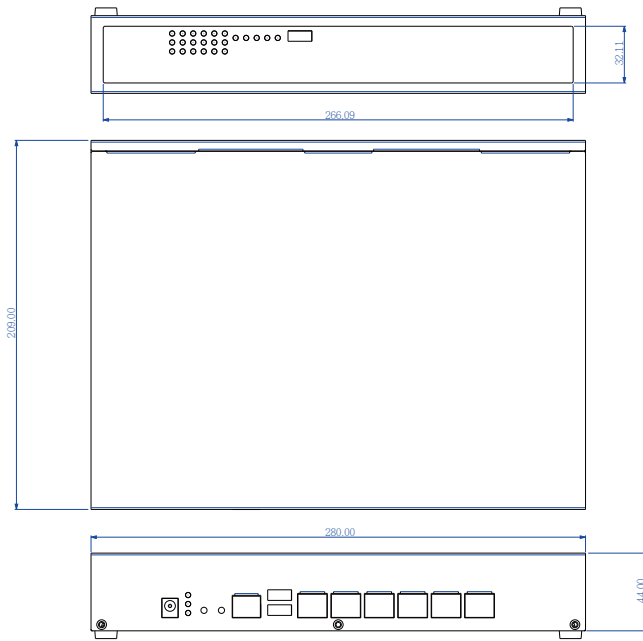
### I/O

Ethernet	6 x GbE, Intel® I210-AT Ethernet Controllers
Expansion Slot	(support Wifi, 4G module w/ antenna) 1 x Mini PCIe Slot
Serial Port	1 x Console Port (RJ45)
USB	3 x USB 3.0 Port
GPIO	8-bit Digital I/O

### Hardware Feature

Hardware Monitoring	<ol style="list-style-type: none"> <li>1) CPU Voltage</li> <li>2) CPU Temperature</li> <li>3) System Temperature</li> <li>4) RTC Battery Voltage</li> </ol>
WatchDog Timer	Software programmable 1~255 sec.

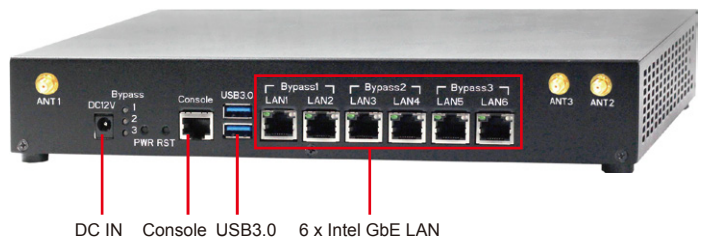
## Dimension



## I/O Connectors



USB 3.0



DC IN Console USB3.0 6 x Intel GbE LAN

## Packing List

- AND-APL1N1FL system
- 1 x Driver CD
- 1 x Quick Guide
- 1 x Console Cable (DB9)
- 1 x SATA Cable
- 1 x SATA Power Cable

## Ordering Information

AND-APL1N1FL series

Microbox Fanless Solution with Intel® Apollo Lake SoC J-series/N-series/E-series, GbE, USB 3.0, SO-DIMM DDR3L-1866, SATA III, CF, Mini PCIe

## Option

- 2GB DDR3L-1866 memory (non-ECC SO-DIMM)
- 4GB DDR3L-1866 memory (non-ECC SO-DIMM)
- 8GB DDR3L-1866 memory (non-ECC SO-DIMM)
- WiFi module w/ antenna
- 4G module w/ antenna
- Acrosser LOGO sticker x 1 (Top only)