

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 3.0
- 1 x Mini PCIe Socket
- 8 x GPIO



Specification

System

CPU	<ul style="list-style-type: none"> • Intel® Apollo Lake SoC J3455 CPU • Intel® Apollo Lake SoC J3355 CPU • Intel® Apollo Lake SoC N4200 CPU • Intel® Apollo Lake SoC N3350 CPU • Intel® Apollo Lake SoC E3950 CPU • Intel® Apollo Lake SoC E3940 CPU • Intel® Apollo Lake SoC E3930 CPU
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
3rd LAN Bypass	3-pair
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
GPIO	8-bit Digital I/O

Hardware Feature

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

Power Requirement

Power Input	12V / 60W Adapter
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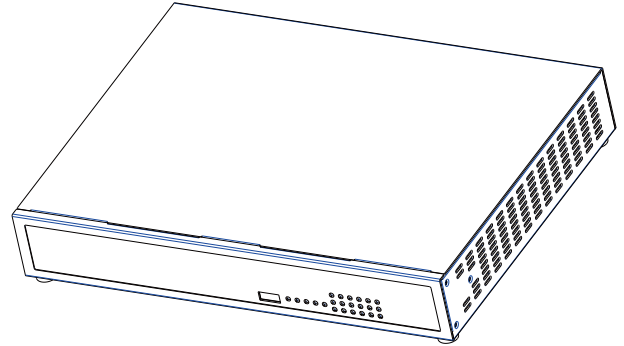
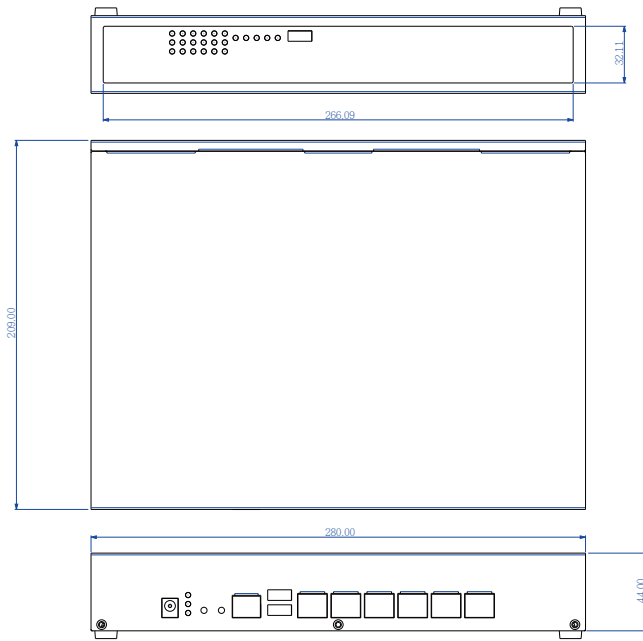
Software

OS Support	<ul style="list-style-type: none"> • Windows 10 IoT Enterprise LTSC Entry • Ubuntu 18.04 64bit
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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)
Safety	CE, FCC class A

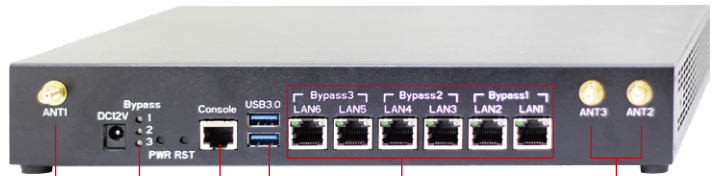
Dimension



I/O Connectors



USB 3.0



Antenna

DC IN

Console

USB3.0

6 x Intel GbE LAN

Antenna

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
- Arosser LOGO sticker x1(Top only)