

# ANK-APL1N1FL series

Intel® Apollo Lake SoC series Networking 1U Rack Mount 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 PCIe Expansion Slot, 1 x Mini PCIe Socket
- 1 x COM
- 8 x GPIO
- 1 x LCM



In-Vehicle Computer

Gaming Platform

Networking Appliance

Embedded SBC

Embedded System

Panel PC

## 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	1 x PCIe x 8 Slot (x1 Signal) 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
LCM	16 x 2 characters LCM with 4-key button

### 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.

### Power Requirement

Power Input	60W Open Frame Power Supply
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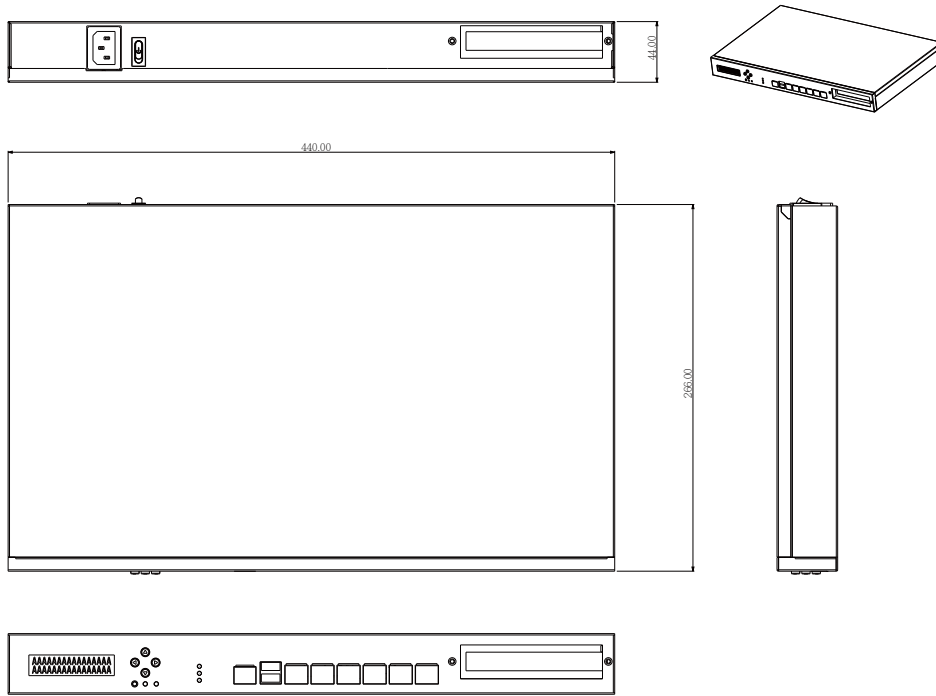
### Software

OS Support	<ul style="list-style-type: none"> <li>• Windows 10 IoT Enterprise LTSC Entry</li> <li>• Linux Kernel 4.4 &amp; above</li> </ul>
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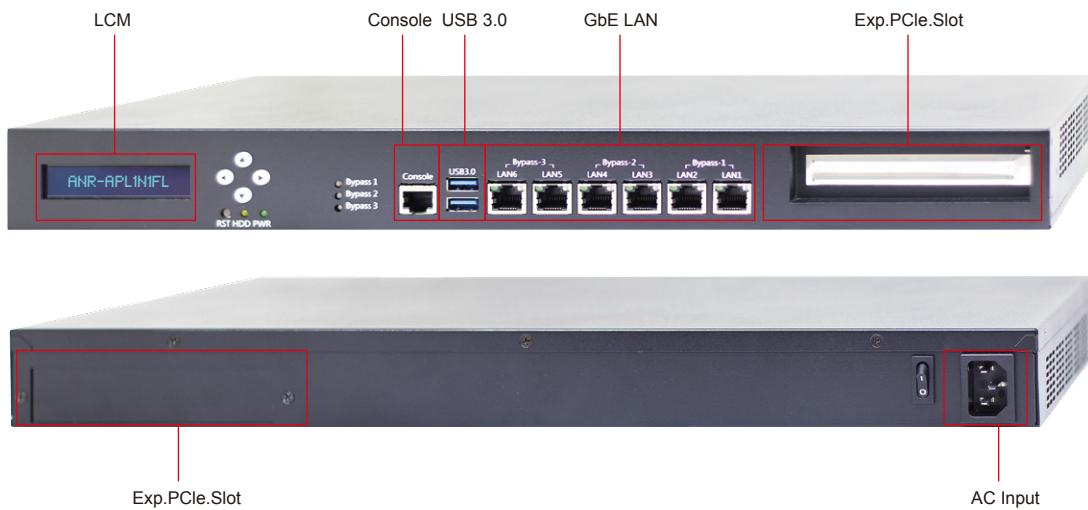
### Mechanical & Environment

Security	TPM 2.0
Dimension	440 x 266 x 44mm
Operating Temp.	0~40°C (32~104°F)
Storage Temp.	-20~80°C (-4~176°F)
Safety	CE, FCC class A

## Dimension



## I/O Connectors



## Packing List

- ANR-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

ANR-APL1N1FL series

1U Rack Mount Fanless Solution with Intel® Apollo Lake SoC J-series/N-series/E-series, GbE, USB 3.0, SO-DIMM DDR3L-1866, SATA III, CF, PCIe Expansion Slot, 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)
- Arosser LOGO sticker x2 (Top & Front)