

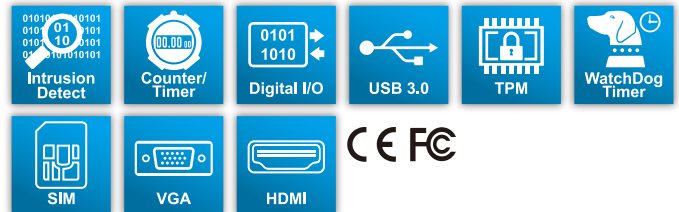
AES-APL1E1FL

Intel Pentium N4200 (Fan Less Embedded System Computer)



Features

- Rugged fan-less design
- Support New Intel Pentium / N4200 processors
- 2 x DDR3L 1866 MHz SO-DIMM, up to 8GB
- VGA & HDMI video output
- 2 x swappable 2.5" HDD bay
- TPM 1.2 / 2.0
- Variety Wireless Communication



Others Feature

WatchDog Timer 1~255 sec. software programmable

Power Requirement

Power Input 12 V

Software

OS Support Windows 10 (64 bit)& Linux kernel to 4.4 or above(64 bit)

Mechanical & Environment

Dimension 260 mm x 195 mm x 62 mm

Operating Temp. -25~60°C

Vibration 5~500Hz, 2GRMS

Shock 30G ,6MS

Storage temp. -40~80°C (-40~176°F)

Safety CE, FCC class B,

Power Management

Power on/off switches Power Button
RESET Button

Specification

System

CPU	Intel® Pentium™-N4200 Intel®ATOM. X7-E3950 / X5-E3930
Chipset	Intel Apollo lake SoC

Video

Graphic Controller	Intel HD Graphics 505
Video Interface	1 x VGA port (DB15) , 1 x HDMI

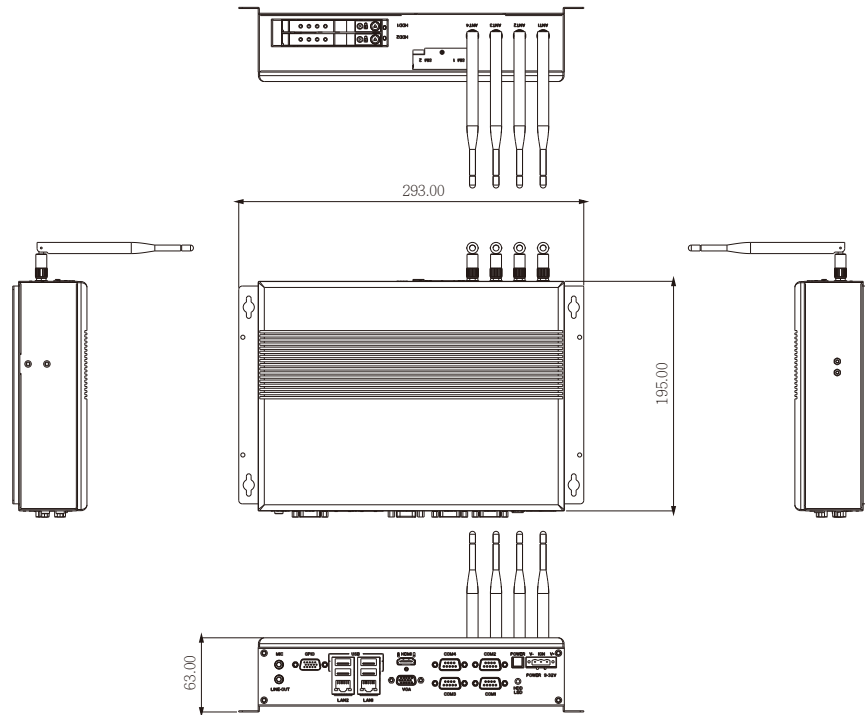
Storage

SATA	2 x SATA II port
Disk Bay	2 x 2.5" Disk bay with Anti-vibration/Anti-shock solution for SSD only

I/O

Expansion Slot	3 x Mini PCI-e(Reserve for Wi-Fi and 4G LTE)
Ethernet	2 x GbE RJ45, Intel i210AT
Serial Port	1 x RS-232/422/485 3 x RS-232
USB	4 X USB 3.0
GPIO	8-bit GPIO (4 In, 4 Out)
Audio	1 x MIC in 1 x Audio out
Antenna Hole	1 x SMA for GPS 1 x SMA for 4G 2 x SMA for Wi-Fi & Bluetooth
SIM	SIM Slot x 2, SIM card changeable without opening case, latch to protect SIM uncertainly touch
TPM	On-board TPM 1.2 / 2.0(Optional)

Dimension



I/O Connectors



AES-APL1E2FL

Packing List

- 1 x AES-APL1E1FL
- 1 x User Guide CD with driver
- 1 x Utility CD
- 1 x GPIO Cable
- 1 x Antenna for GPS (option)
- 2 x Antenna for Wi-Fi & Bluetooth (option)
- 1 x Antenna for 4G LTE (option)

Ordering Information

- AES-APL1E1FL - intel Pentium N4200
 - intel Atom x7 E3950 / x5 E3930

Optional Modules

- | | |
|-----------------|------------------------------------|
| EC20/EC25 | Quectel 4G + GPS + Glonass module |
| MC7304/MC7354 | Sierra 4G + GPS + Glonass module |
| RTL8812AEACC-01 | Realtek (2T2R) Wi-Fi+BT a/b/g/n/ac |
| 251NBT | Sparklan (2T2R) Wi-Fi+BT a/b/g/n |