

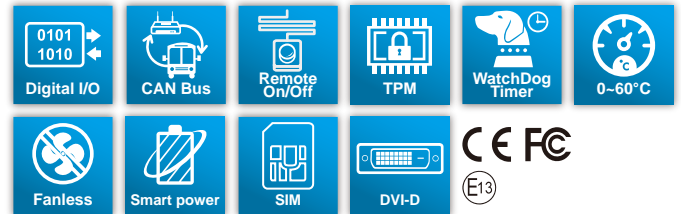
AIV-APL1V1FL

New Intel Pentium-N4200 Fan Less In-Vehicle Computer



Features

- Rugged fan-less design
- Support New Intel Pentium N4200 processors
- 1 x DDR3L 1866 MHz SO-DIMM, up to 8GB
- Support CAN 2.0A/2.0B or ODB II (By SKU)
- VGA & DVI video output
- 2 x swappable 2.5" HDD bay
- Variety Wireless Communication
- Support 9-36Vdc with power ignition



Others Feature

WatchDog Timer 1~255 sec. software programmable

Software

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

Power Requirement

Power Input 9-36Vdc with power ignition

Mechanical & Environment

Dimension 260mm x 195mm x 63mm
 Operating Temp. -25°C ~ 60°C
 Vibration IEC 60068-2-64, 5~500Hz, 3GRMS(SSD)
 Shock IEC 60068-2-27, 50G 500m/s² 11MS
 Storage Temp -40~80°C (-40~176°F)
 Safety CE, FCC class B, E-Mark

Smart In-Vehicle Power Management

O/S Anti-Crash Smart O/S boot/shut-down control by power subsystem
 System boot / Shut-down delay Delay time from 0 seconds to 60 minutes setting in BIOS
 System boot fail retry 3 times boot fail retry
 Power on/off switches

- System power switch by remote cable switch
- System power input serial connection to car battery and ignition switch

 Car battery protection Low battery voltage monitoring and configurable auto shutdown low battery voltage level

Specification

System

CPU	Intel® Pentium™-N4200
Chipset	Intel Apollo lake SoC
Memory	2 x DDR3L 1866 MHz ,SO-DIMM, support up to 8GB

Video

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

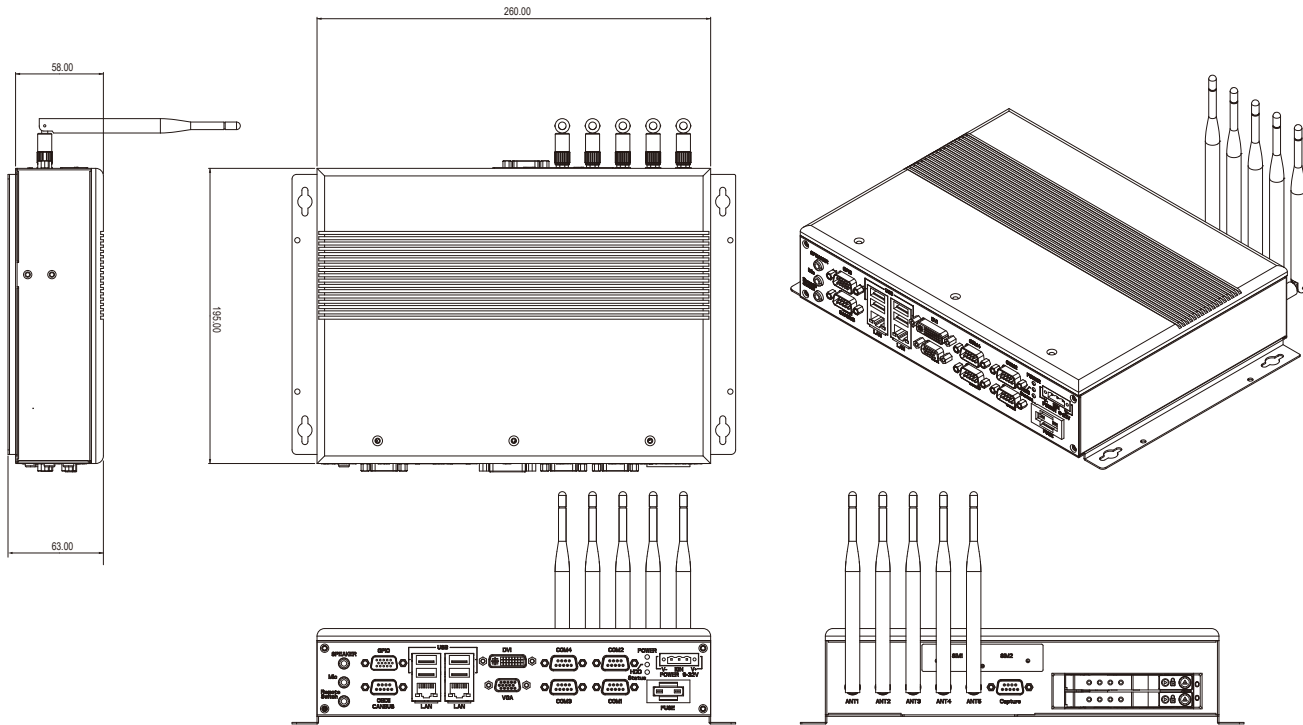
Storage

SATA	2 x SATA III port
Disk Bay	2 x swappable 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
CAN BUS	DB9 connector, support CAN 2.0A/2.0B protocol (J1939 for optional)
TPM	On-board TPM 1.2 / 2.0(By Request)

Dimension



I/O Connectors



Packing List

- 1 x AIV-APL1V1FL
- 1 x User Guide CD with driver
- 1 x GPIO/CAN Cable
- 1 x Terminal block (Plug-DC connector)
- 1 x Remote Switch Cable
- 1 x Antenna for GPS (option)
- 2 x Antenna for Wi-Fi & Bluetooth (option)
- 1 x Antenna for 4G LTE (option)
- 1 x Spare Fuse

Ordering Information

AIV-APL1V1FL-PT1 AIV-APL1V1FL- Intel Pentium N4200+CAN 2.0
 AIV-APL1V1FL-PT1OB AIV-APL1V1FL- Intel Pentium N4200+OBD II

Optional Modules

EC20/EC25	Quectel 4G + GPS + Glonass module
MC7455/MC7430	Sierra 4G + GPS + Glonass module
Jwx6058	Qualcomm. (QCA6174A-5) Wi-Fi5+BT5.0
SC330N4	Yuan Analog Capture card 4ch With Testing Cable
G-SenSor	G-SenSor board