

AIV-C622V1

Autonomous Vehicle Server



Features

- Intel® C622 Platform
- Intel® 2nd Gen Xeon Scalable Processor
- 6 x RDIMM DDR4-2933 (up to 384GB)
- 3x Exp. PCIe Gen3 x16 slot (GPU Card)
- 12 x USB3.2 (5Gbps)
- 4 x 2.5" SATA-III Hot-swappable with All-In-One Storage Bay
- 2 x 10GbE, 2 x GbE RJ-45
- 1 x Management port
- DC+DC/Redundant PSUs



Others

WatchDog Timer	1-255 sec. software programmable(O=Disable)
Security	TPM 2.0 (Infineon chipset)
Mgmt	IPMI 2.0 (ASPEED AST2500 BMC)

Software

OS Support	Ubuntu 18.04LTS.
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Power Requirement

Power Input	DC 18~36V 1300W / 36~72V 1900W
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Mechanical & Environment

Dimension	400 (W) x 190 (H) x 510 (D) mm
Operating Temp.	-25 ~ 50°C (-13~122°F)with 2 x 250W GPU cards installed & 100% CPU/GPU loading. -25 ~ 45°C (-13~113°F)with 3 x 250W GPU cards installed & 100% CPU/GPU loading.
Chassis	Aluminum extrusion heat sink & metal chassis
Thermal Design	Smart Cooling Fan
Storage Temp	-40~80°C (-40~176°F)
Safety	CE / FCC class B / E Mark / cULus / RoHS
Vibration	IEC 60068-2-64, 5~500Hz, 3GRMS(CF/SSD)
Shock	IEC 60068-2-27, 50G 500m/s ² 11MS

Specification

System

CPU	Intel®2nd Gen Xeon Scalable processor Ex. Intel Xeon Gold 5217 8C/16T,3.0GHz
Chipset	Intel® C622 PCH
Memory	6 x DDR4-2933 RDIMM (up to 384GB)

Video

Video Memory	Integrated
Video Interface	1 x VGA

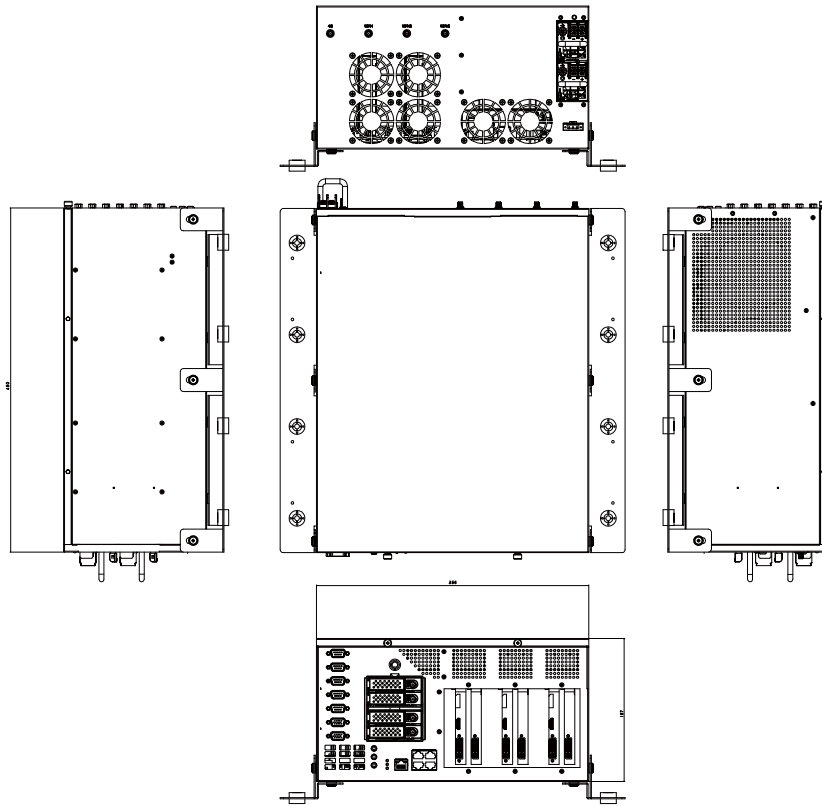
Storage

SATA	4 x SATA III port (RAID 0/1/5/10)
Disk Bay	4 x 2.5" Hot swappable SSD bay (All in one)

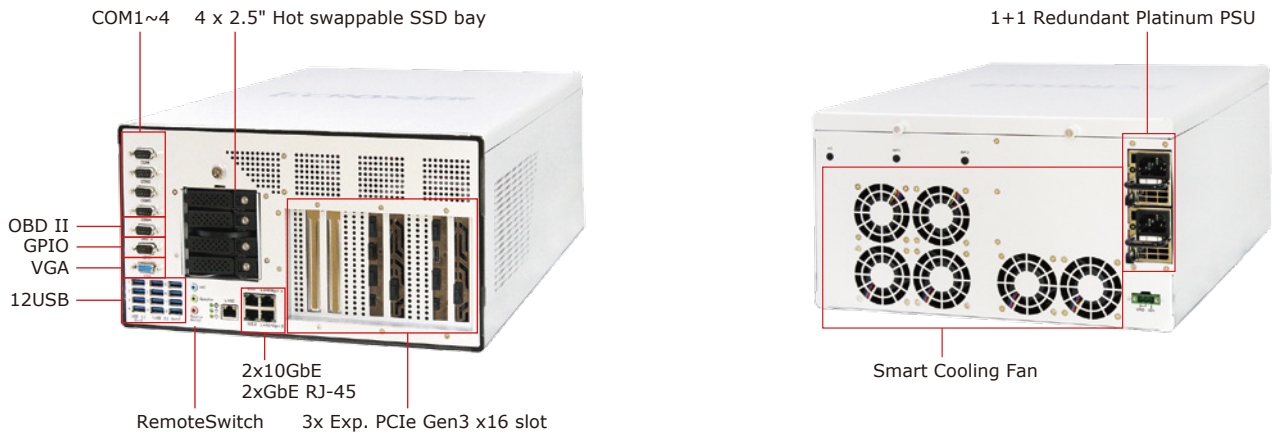
I/O

Ethernet	2 x GbE RJ-45 (intel i210-iT) 2 x 10GbE RJ-45 (PCH C622) 1 x GbE RJ-45 Management port
USB	12 x USB 3.2 Gen1(5 Gbps)
Serial Port	4 x COM - DB9 (RS232/RS422/485)
CAN Bus	CAN Bus 2.0B OBD II (Option)
GPIO	GPIO 4-in / 4-out,
Audio	3 x Audio jack • Green: Audio out • Blue: Remote switch • Pink : Mic in
Mini-PCIe	1 x Mini PCIe socket (for WiFi) 1 x M.2 socket (for 4G,)
Exp. PCIe slot	3 x Exp. PCIe Gen3 x16 slot (GPU Card)
SIM Card	1 x SIM card Socket

Dimension



I/O Connectors



Packing List

- 1 x AIV-C622V1
- 1 x System Driver CD
- 1 x Terminal block female 3pin
- 1 x HDMI locking bracket
- 1 x 8 bit GPIO/CAN Cable
- 1 x Remote switch cable

Optional Module List

- Sierra MC7430 (4G + GPS + Glonass module)
- Sierra MC7455 (4G + GPS + Glonass module)
- Jwx6058 (Qualcomm. QCA6174A-5)Wi-Fi5+BT5.0
- 8/16/32GB DDR4 2933 RDIMM