VPC-5640S

Multi-PoE & Fanless Appliance with 12th Generation Intel® Core™ i7 Processor

Front View

MIC-in & Line-out x 1

Reset Button

USB 3.0 x 2

Power Button

USB 2.0 x 2   2.5G PoE LAN x 4

2.5G LAN

Rear View

ACC/Ignition Delay On/Off Switch

9-36V DC Input   CANBUS FD x 2

DIO

COM

COM

SIM Slot x 4

HDMI x 2
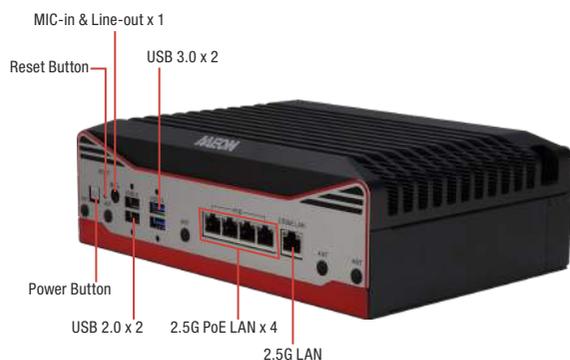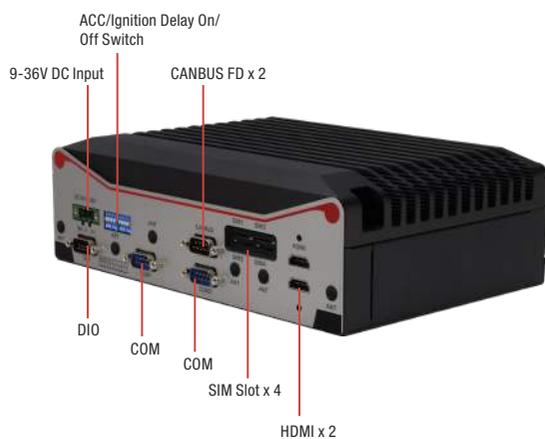
Features

- **12th Gen Intel® Core™ i7 Processor**
- **DDR5 SODIMM x 2, Max 64GB**
- **2.5GbE POE/PSE 802.3 af/at x 4**
- **Dual LTE Module with SIM Slots x 4, 5G Supported**
- **M.2 2280 M-Key (PCIe [x4])/M.2 2230 E-Key)**
- **M.2 3052 B-Key x 2 (USB 2.0, USB 3.0)**
- **Onboard TPM 2.0**
- **9 ~ 36V DC-in with protection circuit and ignition delay on/off**
- **-40°C ~ 70°C   Operating Temperature**
- **MIL-STD-810H and E-Mark Certified**

DDR 5   2.5 GbE   USB 3.2 Gen 2   HDMI   E24   CE   FC

Specifications

System	
Form Factor	Multi-PoE & Fanless Appliance
Processor	Default: 12th Generation Intel® Core™ i7-1265UE Processor Project Based: Intel® Core™ i5-1245UE Intel® Core™ i3-1215UE
Chipset	—
Main Memory	DDR5 SODIMM x 2, up to 64GB
Display	HDMI x 2
Ethernet	2.5GbE x 1 (Intel® I226-LM)
Smart PoE	2.5GbE x 4 (IEEE802.3 at/af, sharing 60W of power budget for every four PoE ports)
RAID support	—
Expansion Slot	M.2 2230 E-Key x 1 (PCIe [x1] + USB 2.0, for WiFi/Bluetooth Module) M.2 3052 B-Key w/ Dual-SIM x 2 (USB 3.0 + USB 2.0, for LTE/5G Module) M.2 2280 M-Key x 1 (PCIe [x4]), support NVME PCIe [x4] SSD)
GPS, G-Sensor	VS: Built-in GPS, NEO-M9V & G-Sensor
Front I/O Panel	USB 3.2 Gen 2 (Type-A) x 2 USB 2.0 (Type-A) x 2 2.5GbE LAN x 1 2.5GbE PoE LAN x 4 (IEEE802.3 at/af) Jack x 1 for Line-out & MIC-in Reset Button x 1 Power Button x 1
Rear I/O Panel	DB-9 Male x 2 for RS-232/422/485 DB-9 Male x 1 for Isolated CANBus FD x 2 DB-15 Male x 1 for DIO 8 bit HDMI 1.4b x 2 3-pin Terminal Block x 1 DIP Switch x 1 SIM Slot x 4
Storage	
HDD Tray	2.5" HDD/SSD Bay x 1
CF/CFast/mSATA Slot	—
Environmental	
Operating Temperature	-40°F ~ 158°F (-40°C ~ 70°C), IEC68-2 with 0.5 m/s AirFlow
Storage Temperature	-40˚F ~ 176˚F (-40˚C ~ 80˚C)
Storage Humidity	5 ~ 95% @ 40˚C, non-condensing
Vibration/Shock	MIL-STD-810H
Certification	CE/FCC Class A, UKCA, E-Mark
Power Requirement	
Power Supply	IS: DC-in 9~36V x 1 for 3-pin Terminal Block VS: DC-in 9~36V x 1 for 3-pin Terminal Block with power ignition
Mechanical	
Removable HDD Tray	—
Internal System HDD Bay	2.5" HDD/SSD Bay x 1
Dimension	9.45'' x 6.58'' x 2.99" (240mm x 167.1mm x 76mm) Without brackets 11.69'' x 6.58'' x 3.27"(297mm x 167.1mm x 83mm) With brackets
Gross Weight	7.93 lb (3.6 Kg)
Note	—

Note: All specifications are subject to change without notice.

Dimension

Unit: mm
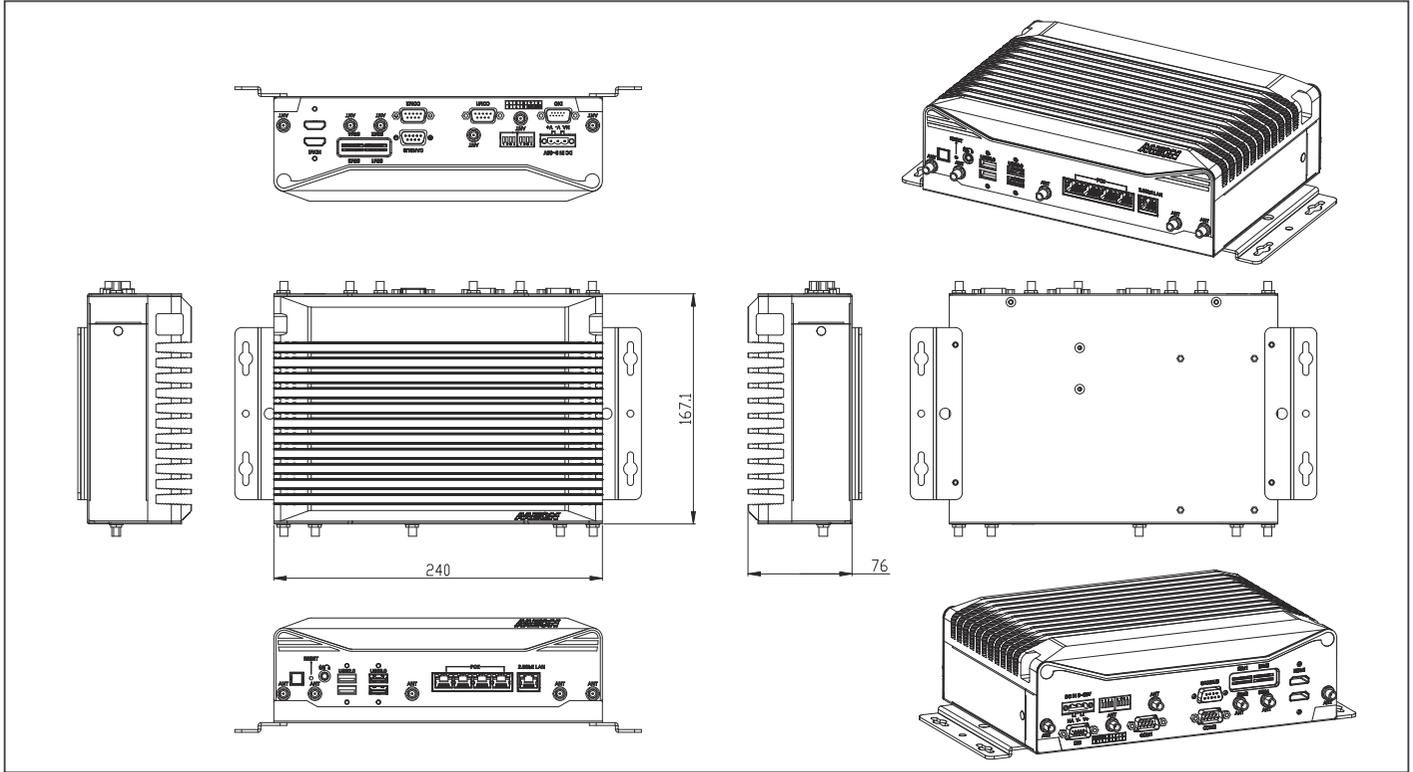
Ordering Information

Part Number	Chipset	RAM	Cooler	Storage	RAID Support	Display	LAN	PoE	USB	RS-232	RS-232/422/485	Expansion Slot	Power
VPC-5640S-IS-A10-00	Intel® Core™ i7-1265UE	—	Fanless	M.2 2280 M-Key x 1 (PCIe [x4]) 2.5" SATA Drive Bay x 1	—	HDMI x 2	2.5GbE x 1	2.5GbE POE/PSE 802.3 af/at x 4 (Max. 60W)	USB 3.2 Gen 2 x 2 USB 2.0 x 2	—	2	M.2 2280 M-Key x 1 M.2 2230 E-Key x 1 M.2 3052 B-Key x 2 w/ Dual-SIM	DC 9-36V
VPC-5640S-VS-A10-00	Intel® Core™ i7-1265UE	—	Fanless	M.2 2280 M-Key x 1 (PCIe [x4]) 2.5" SATA Drive Bay x 1	—	HDMI x 2	2.5GbE x 1	2.5GbE POE/PSE 802.3 af/at x 4 (Max. 60W)	USB 3.2 Gen 2 x 2 USB 2.0 x 2	—	2	M.2 2280 M-Key x 1 M.2 2230 E-Key x 1 M.2 3052 B-Key x 2 w/ Dual-SIM Built-In GPS NEO-M9V module	DC 9-36V ignition

Packing List

- VPC-5640S x 1
- Wallmount Bracket x 2
- Screw Package x 1
- 3 Pin DC-in Power Connector x 1

Optional Accessories

- **170X000800**
  Power Cord (European Type)
- **170X000799**
  Power Cord (US type)
- **170X000803**
  Power Cord (Japanese Type)
- **1255X00059**
  120W Power Adapter