

# 07 VPC-5620S

Multi-PoE & Fanless Appliance with 8th Generation Intel® Processor

Smart In-vehicle & AMR BOX PC

VPC-5620S IS  
Front View



Rear View



VPC-5620S VS  
Front View



Rear View



## Features

- Multi-PoE & Fanless Appliance
- Intel® 8th Generation Whisky Lake processor
- Supporting up to 64 GB DDR4 2400 SDRAM, two slots
- DP x 1, HDMI x 1
- RS232/422/485 COM port x 2 (Isolated by BOM option), USB3.0 port x 4
- GigE connector x 5 (PoE x 4, GigE x 1)
- DC 12-24V power Input, Industrial config.; DC 10~36V, In-vehicle config
- 1 x jack for Line out & MIC in
- 8 bits DIO ( Isolated 4DI & 4DO / 8DI/ 8DO by BOM option)
- Wide Temperature: -20°C ~ 70°C
- LAN LED indicator (ACTx5, LNKx5), Status LED x1, HDD LED x 1, Wireless LED x 1, Power button w/indicator x 1, Reset button x 1



## Specifications

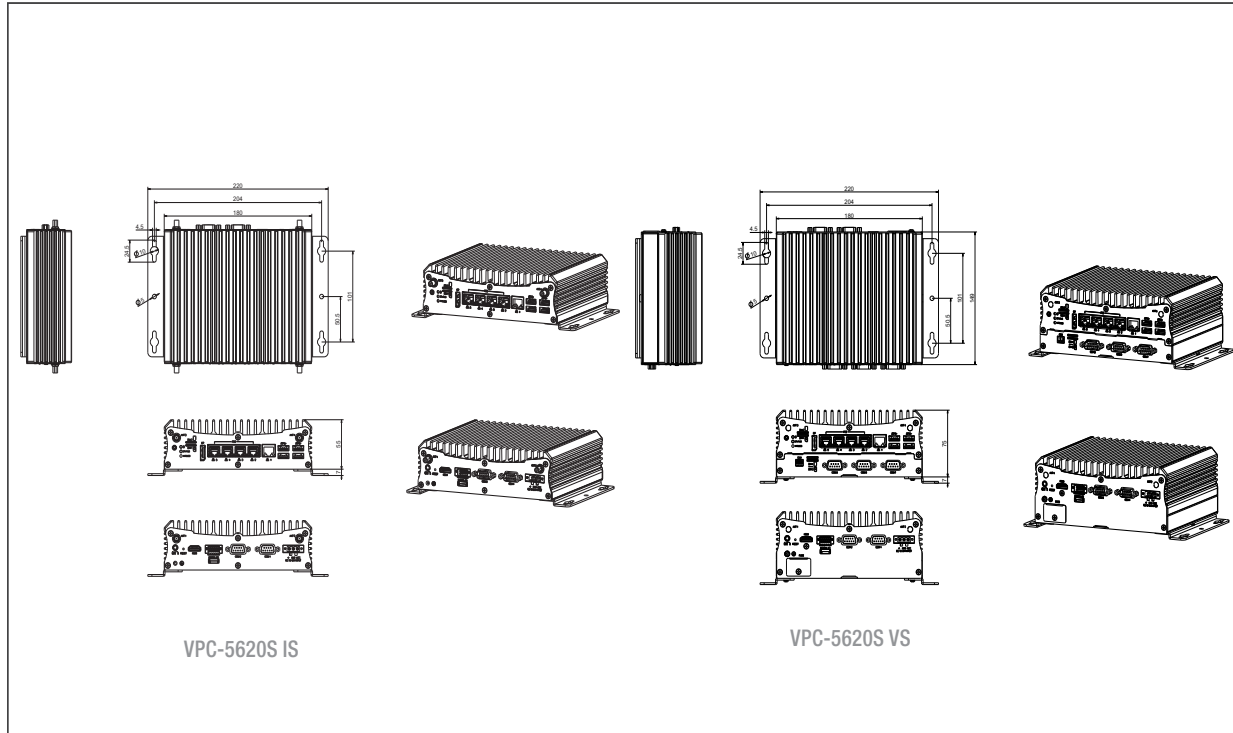
| System                  |                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor             | Multi-PoE & Fanless Appliance                                                                                                                                                                                                                                                          |
| Processor               | Intel® Whisky Lake Processor (Default: i7-8665UE; Project base: i5-8365UE, i3-8145UE or 4305UE)                                                                                                                                                                                        |
| Chipset                 | —                                                                                                                                                                                                                                                                                      |
| Main Memory             | Up to 64GB, DDR4 260-pin SODIMM                                                                                                                                                                                                                                                        |
| Display                 | HDMI x 1, DP x 1                                                                                                                                                                                                                                                                       |
| Ethernet                | 1x GbE, Intel i211, support Wake on LAN and PXE supported                                                                                                                                                                                                                              |
| Smart PoE               | 4 ports, IEEE 802.3 at/af, sharing 60W of power budget for every four PoE ports. Able to power management in each independent PoE port (SDK available)                                                                                                                                 |
| RAID support            | 0/1                                                                                                                                                                                                                                                                                    |
| Expansion Slot          | IS:<br>mPCIe Full-Size (USB+PCIe) x 1<br>mPCIe Full-Size (USB+SATA) colay SATA x 1<br>M.2 2280 (USB+PCIe), support NVME PCIe [x4] SSD x 1<br>VS:<br>mPCIe Full-Size (USB+PCIe) x 3<br>mPCIe Full-Size (USB+SATA) colay SATA x 1<br>M.2 2280 (USB+PCIe), support NVME PCIe [x4] SSD x 1 |
| GPS, G-Sensor           | VS:Built-in GPS, Gyro & G-Sensor                                                                                                                                                                                                                                                       |
| Front I/O Panel         | RJ45 Smart PoE Port (60W) x 4, USB 3.2 Gen 1 x 4, Giga LAN x 1, DP x 1, Power button, Status LED, HDD LED, Wireless LED, Micro SIM slots(S) x 2, Micro SIM slots(VS) x 4, Antenna holes x 2, CANbus (VS) x 1, RS-232 (VS) x 3                                                          |
| Rear I/O Panel          | jack for Line out & MIC in x 1<br>HDMI x 1<br>RS-232/422/485 (Isolated by BOM option) x 2<br>HW Reset x 1, 3pin Power input x 1<br>8 bits DIO ( Isolated 4DI & 4DO / 8DI/ 8DO by BOM option)<br>Antenna holes x 2                                                                      |
| Storage                 |                                                                                                                                                                                                                                                                                        |
| HDD Tray                | IS:2.5" HDD/SSD Bay x 2<br>VS:2.5" HDD/SSD Bay x 1                                                                                                                                                                                                                                     |
| CF/CFast/mSATA Slot     | —                                                                                                                                                                                                                                                                                      |
| Environmental           |                                                                                                                                                                                                                                                                                        |
| Operating Temperature   | -4°F ~ 158°F (-20°C ~ 70°C)                                                                                                                                                                                                                                                            |
| Storage Temperature     | -40°F ~ 185°F (-40°C ~ 85°C)                                                                                                                                                                                                                                                           |
| Storage Humidity        | 10%~80% @40°C, non-condensing                                                                                                                                                                                                                                                          |
| Vibration/Shock         | MIL-STD-810G                                                                                                                                                                                                                                                                           |
| Certification           | CE & FCC Class A                                                                                                                                                                                                                                                                       |
| Power Requirement       |                                                                                                                                                                                                                                                                                        |
| Power Supply            | IS:DC 12-24V;<br>VS:DC10-36V with power ignition                                                                                                                                                                                                                                       |
| Mechanical              |                                                                                                                                                                                                                                                                                        |
| Removable HDD Tray      | —                                                                                                                                                                                                                                                                                      |
| Internal System HDD Bay | IS:2.5" HDD/SSD Bay x 2<br>VS:2.5" HDD/SSD Bay x 1                                                                                                                                                                                                                                     |
| Dimension               | IS:6.3" x 5.87" x 2.16" (180mm x 149mm x 55mm)<br>VS:6.3" x 5.87" x 2.95" (180mm x 149mm x 75mm)                                                                                                                                                                                       |
| Gross Weight            | TBD                                                                                                                                                                                                                                                                                    |
| Note                    | —                                                                                                                                                                                                                                                                                      |

# VPC-5620S

07

Smart In-Vehicle & AMR BOX PC

## 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                      | Form Factor | Power              |
|---------------------|------------------|----------------|---------|-------------------------------------------------------------------------------|--------------|------------------|---------|---------|------------------|--------|----------------|-------------------------------------|-------------|--------------------|
| VPC-5620S-IS-A11-00 | Intel® i7-8665UE | 260-pin SODIMM | Fanless | Supporting 2.5" SSD x 2 (Supporting 2.5" SSD x 1, mSATA x 1, by project base) | 0/1          | DP x 1, HDMI x 1 | GbE x 1 | 4 Ports | USB 3.2 Gen1 x 4 | —      | 2              | Mini-Card x 2<br>M.2 2280 M key x 1 | Desktop     | DC 12-24V          |
| VPC-5620S-VS-A11-00 | Intel® i7-8665UE | 260-pin SODIMM | Fanless | Supporting 2.5" SSD x 1 (Supporting 2.5" SSD x 1, mSATA x 1, by project base) | 0/1          | DP x 1, HDMI x 1 | GbE x 1 | 4 Ports | USB 3.2 Gen1 x 4 | 3      | 2              | Mini card x 4<br>M.2 M key x 1      | Desktop     | DC 10-36V ignition |

## Packing List

- SATA cable x 2,
- Power cable x 2 (for SATA)
- Matting connector for power input
- VPC-5620S

## Optional Accessories

- **9741236A00**  
WiFi module kit, 802.11ac/a/b/g/n.BT4.2.USB Signal.SparkLan.WPET-236ACN(BT).W/2 sets of cable&antenna
- **978966660G**  
GPS Antenna
- **9741E62560**  
PCIe mimi card 4G LTE module kit Global Band W/SIM holder w/ Cable & antenna
- **1702031803**  
Power Cord.3P-250V 10A 180D.1.8M.VDE.FAN-JET.YP-22/YC-12 (Euro)
- **1702031802**  
Power Cord.3P-125V 10A 180D.1.8M.USA.FANJET.YP12/YC-12 (USA)
- **170203180E**  
Power Cord. 3P. 125V/7A. 1. 8M. PSE YP12/YC12 Certificat (JPN)
- **1255X00059**  
(TF)AC/DC Power Supply.input AC100-240V output DC 19V.6.32A.120W.3P phoenix.5.08mm.FSP.FSP120-ABAN3.9NA1208542

## Assured Systems

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### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660