

# IVS-50P0

In-Vehicle Computer



## Features

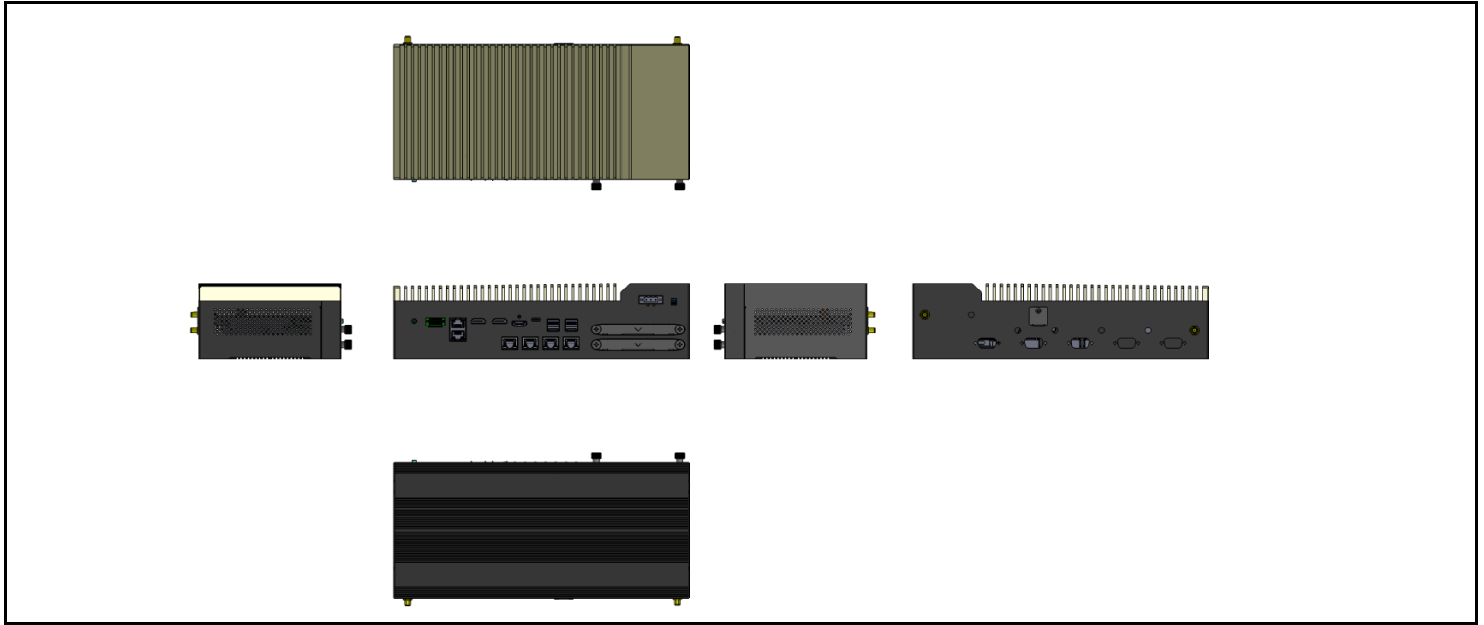
- Intel® Core™ Ultra Series 3 processors
- 2 x DDR5 SO-DIMM
- DC-IN 9V to 55V with Ignition
- TPM 2.0
- Support LAN,COM,USB,Display,DIO,CAN,POE
- Optional 4G LTE, 5G, Wi-Fi
- Fanless design

## Specifications

System		Interface	
<b>CPU</b>	Intel® Core™ Ultra Series 3 processors PTL-H 484 366H,PTL-H 404 335	<b>Serial Port</b>	2 x RS232/422/485 DB9
<b>Memory</b>	2 x DDR5 SO-DIMM up to 64GB	<b>CAN Bus</b>	2 x CAN FD Isolated terminal block
<b>Storage</b>	2 x Front-access 2.5" SSD Bay 1 x M Key (2280),NVMe SSD PCIe Gen4	<b>Ethernet</b>	2 x RJ45 Intel® I226IT 2.5GbE LAN
<b>Real Time Clock</b>	Yes	<b>USB</b>	4 x USB3.2 Gen2x1 (Type A) 1 x USB2.0 wafer
<b>Security</b>	TPM 2.0	<b>DI/DO</b>	4 x DI, 4 x DO, Isolated terminal block
<b>Thermal Design</b>	Fanless design	<b>AI/AO</b>	--
<b>Operating System</b>	Ubuntu 22.04 LTS & above (64-bit) Windows 11(64-bit)	<b>Display</b>	1 x HDMI 2.1 out 1 x DP 2.0
<b>Support Protocol</b>	--	<b>PoE</b>	2 x RJ45 Intel® I226IT 2.5GbE PoE PSE 802.3af total 30W (Optional)
Power Requirement		<b>Indicators</b>	1 x Status LED ( for IGN)
<b>Input Voltage</b>	9-55 VDC (Ignition)		1 x M.2 B Key (3052) PCIe x1 + USB3.2/2.0
<b>Power Consumption</b>	90 W (typical)	<b>Expansion Slot</b>	1 x M.2 B Key (2242) PCIe x1 + USB3.2/2.0 1 x M.2 E Key (2230),PCIe x1 + USB2.0
<b>Power Connector</b>	5 pin terminal block	<b>SIM Slot</b>	1 x Nano SIM Card Socket
Environmental and Mechanical		<b>Antenna</b>	6 x External Antenna holes
<b>Dimension</b>	224 x 173.6 x 94mm	<b>Other Interface</b>	1 x power botton 1 x G-sensor
<b>Weight</b>	3.2kg		
<b>Operating Temperature</b>	-20 - 60°C (-4 - 140°F)		
<b>Storage Temperature</b>	-40 - 80°C (-40 - 176°F)		
<b>Operating Humidity</b>	5 to 95% relative humidity(RH), non-condensing		
<b>Mounting/Installation</b>	bracket(s) for installation		
Certification			
<b>Regulations</b>	CE, FCC,E-Mark, RoHs		

## Dimension

Unit: mm / inch



## Ordering Information

### Packing List

- 1 x System
- 1 x Screw Pack
- 1 x 10 Pin Terminal block
- 1 x 5 Pin Terminal block
- 1 x bracket(s) kits

### Part Number

<b>2IVS-50P0-00-01</b>	Intel® Panther Lake-H FAN 9-55VDC In-Vehicle system
<b>2IVS-50P0-10-01</b>	Intel® Panther Lake-H FAN 9-55VDC 2xPOE(RJ45) In-Vehicle system

## Optional Accessories

### Part Number / Item

<b>8GB RAM</b>	Memory DDR5 8GB SO-DIMM
<b>16GB RAM</b>	Memory DDR5 16GB SO-DIMM
<b>32GB RAM</b>	Memory DDR5 32GB SO-DIMM
<b>Wi-Fi Module</b>	Wi-Fi Module M.2 2230 with Antenna
<b>4G LTE Module</b>	4G LTE Module M.2 3042 with Antenna
<b>5G Module</b>	5G Module M.2 3052 with Antenna
<b>GPS Module</b>	GPS Module M.2 2242 with Antenna