

EVS

3000 LIQ



Intel® Core™ i9/i7/i5/i3 Processor (14th Gen)
Expandable Liquid Cooling AI Computing System



▲ V2X, Traffic Vision



- Workstation-grade Platform: Intel® Core™ i9/i7/i5/i3 Processor (14th gen) running with Intel® R680E PCH supports max 65W TDP CPU
- Up to a 115W MXM GPU with 1 PCIe card expansion
- USB 3.2 Gen 2x2 offers a max speed of 20Gbps
- DC 9V to 55V wide range power input, Software Ignition
- Remote devices Out-Of-Band management powered by Allxon
- Innovative Liquid Cooling Solution serves 5°C to 65°C fanless

▼ Rolling Stock



▲ In-vehicle Computing

intel
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Specifications

System

Processor	- 24-core Intel® Core™ i9/i7/i5/i3 Processor (14th gen, Raptor Lake-S Refresh) - 24-core 13th Gen Intel® Core™ i9/i7/i5/i3 Processor (Raptor Lake-S) - 16-core 12th Gen Intel® Core™ i9/i7/i5/i3 Processor (Alder Lake-S)
Chipset	Intel® R680E
BIOS	AMI
SIO	IT8786E
Memory	2 DDR5 5600MHz SO-DIMM, up to 96GB (ECC/Non-ECC)
OS	Windows 11, Windows 10, Linux

I/O Interface

Serial	2 COM RS-232/422/485 (ESD 8kV)
USB	- 4 USB 3.2 Gen 2 Type A - 1 USB 3.2 Gen 2x2, USB Type-C supports max 20Gbps data transfer (15W, 5V/3A)
Isolated DIO	32 Isolated DIO: 16 DI, 16 DO
LED	Power, HDD, OOB
SIM Card	1 External SIM Card Sockets

Expansion

PCI/PCIe	1 PCIe x16 Slot with x8 Signal
M.2	- 1 M.2 Key B Socket (2280/3042/3052, PCIe/USB 3, default/SATA) - 1 M.2 Key E Socket (2230, PCIe/USB)

Graphics

Graphics Processor	Intel® UHD Graphics 770/730 driven by Intel® X® Architecture
Interface	Up to 7 independent displays: - 2 HDMI 2.1: Up to 4096 x 2304 @60Hz - 1 DP: Up to 3840 x 2160 @60Hz - 4 DP: Up to 7680 x 4320 @60Hz (By requested MXM)

Storage

SATA	2 SATA III (6Gbps) support S/W RAID 0, 1, with 2 Front-access 2.5" SSD/HDD Tray
M.2	1 M.2 Key M Socket (2280, PCIe x4)

Audio

Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out

Ethernet

LAN 1	Intel® I226 2.5GigE LAN supports TSN
LAN 2	Intel® I226 2.5GigE LAN supports TSN

Power

Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block: V+, V-, Frame Ground
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Terminal Block

Out-of-Band Management

MCU	Nuvoton NUC980
Interface	OOB LAN, 10/100Mb Ethernet LAN, RJ45 Connector
Remote Management	Support Remote Power ON/OFF, Reset and Power Cycling

Others

TPM	Infineon SLB9670 supports TPM 2.0, SPI Interface
Watchdog Timer	Reset: 1 to 255 sec./min. per step
Smart Mgmt.	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	280mm x 93.4mm x 215mm (11.02"x 3.68"x 8.46")
Weight	5.7 kg (12.56 lb)
Mounting	- Wallmount by mounting bracket - VESA Mount (Optional) - DIN Rail Mount (Optional) - Rackmount (Optional)

Environment

Operating Temp.	5°C to 65°C (41°F to 149°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @65°C
Shock	- IEC 60068-2-27 - SSD : 50G @wallmount, Half-sine, 11ms
Vibration	- IEC 60068-2-64 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, ICES, EN50155, EN50121-3-2

Order Information

Model	Graphics MXM TDP	PCIe x8 Gen 4	2.5G LAN	USB 3.2 Gen 2	SSD Tray
EVS-3100 LIQ	115W	1	2	5	2

CPU List

Series	CPU	Cores	GHz	TDP (W)	CPU	Cores	GHz	TDP (W)
Intel® Core™	i9-14900	24	5.8	65	i9-14900T	24	5.5	35
	i7-14700	20	5.4		i7-14700T	20	5.2	
	i5-14500	14	5		i5-14500T	14	4.8	
	i3-14100	4	4.7		i3-14100T	4	4.4	
	i9-13900E	24	5.2		i9-13900TE	24	5	
	i7-13700E	16	5.1		i7-13700TE	16	4.8	
	i5-13500E	14	4.6		i5-13500TE	14	4.5	
	i3-13100E	4	4.4		i3-13100TE	4	4.1	
	i9-12900E	16	5		i9-12900TE	16	4.8	
	i7-12700E	12	4.8		i7-12700TE	12	4.7	
	i5-12500E	6	4.5		i5-12500TE	6	4.3	
	i3-12100E	4	4.2		i3-12100TE	4	4	

Optional Software

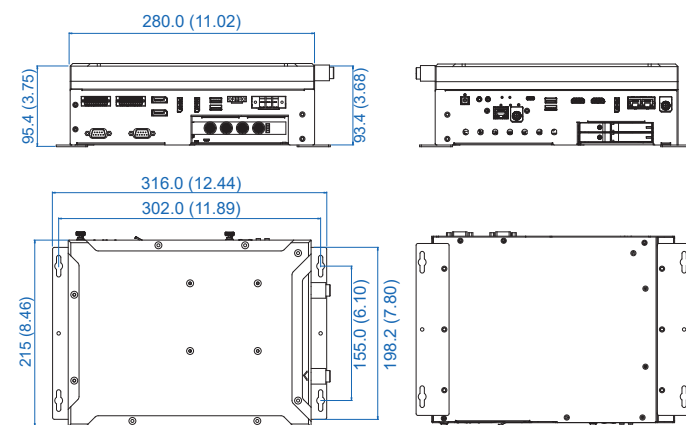
VHub AI Developer	AI Developer Kit
VHub ROS	AMR Developer Kit
VHub EtherCAT	I/O Control Platform

Accessories

LIQ DV KIT	Liquid Cooling Development Kit
DDR5 48G	Certified DDR5 48GB 5600MHz RAM
DDR5 32G	Certified DDR5 32GB 5600/4800MHz RAM
DDR5 24G	Certified DDR5 24GB 5600MHz RAM
DDR5 16G	Certified DDR5 16GB 5600/4800MHz RAM
DDR5 8G	Certified DDR5 8GB 5600/4800MHz RAM
PWA-160WB-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block (7.62mm pitch), Wide Temperature -30°C to +70°C
PWA-180WB	180W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (7.62mm pitch)
PWA-280WB-WT	280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block (7.62mm pitch), Wide Temperature -30C to +70C *Recommended when enable turbo mode (35W CPU), without expansion card
PWA-330WB	330W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (7.62mm pitch) *Recommended when enable turbo mode (65W CPU), without expansion card
TMK2-20P-100	Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm
TMK2-20P-500	Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm
TMB-TMBK-20P	Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting
DIN Rail	DIN Rail Kit
VESA Mount	VESA Mounting Kit
M.2 Storage Module	M.2 Key M Storage Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)



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