

SLP-RPR

13th/14th Gen Intel® Core™ i9/i7/i5/i3 & Celeron® Processor Expandable System



Product Features

- 14th Generation Intel® Raptor Lake-S Refresh Processors
- 2-Memory Socket (Capacity Max. Up to 64GB DDR5 5600)
- 4-Expanslot Slot (M.2 Key-E, Key-B, PCIe16, PCIe4)
- 4-Display (2-HDMI 2.0b, 2-DP++ 1.4,)
- 8-USB Port (4-USB 2.0, 4-USB 3.2 Gen2)
- Support dTPM 2.0, vPro
- Intel® UHD Graphics 770/730
- 2-Audio Jack (Mic-In, Line-Out)
- 4-Intel® Ethernet Controller (1GbE, 3-2.5GbE)
- 8-COM Port (4-RS-232, 4-RS-232/422/485)
- Support Wall mount

Specification

System Information

Processor	35W Intel® Core™ i9-13900TE / i9-14900T Processor Intel® Core™ i7-13700TE / i7-14700T Processor Intel® Core™ i5-13500TE / i5-14500T Processor Intel® Core™ i3-13100TE / i3-14100T Processor 65W Intel® Core™ i9-13900E / i9-14900 Processor Intel® Core™ i7-13700E / i7-14700 Processor Intel® Core™ i5-13500E / i5-14500 Processor Intel® Core™ i3-13100E / i3-14100 Processor
Platform Controller Hub	Intel® Q670E Chipset
System Memory	2 x 262-Pin SO-DIMM Socket (Capacity Max. Up to 64GB DDR5 5600MHz)
I/O Chipset	NuvoTon NCT6126D
BIOS Information	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU Temperature, Voltage with Auto Throttling Control
RAID	RAID 0/1 (2.5" SATA SSD)
TPM	Support dTPM 2.0
iAMT	iAMT 12.0 (Above i5 CPU)

Expansion

M.2	1 x M.2 Key-E 2230 for PCIe x 1 and USB 2.0, support CNVi 1 x M.2 Key-B 2242/3042/3052 with internal SIM slot for PCIe x 1, USB 3.2 and SATA3, support 4G/5G
PCIe	1 x PCIe16 slot (PCIe16 Gen 5 signal) 1 x PCIe4 slot (PCIe4 Gen 4 signal)

Storage

M.2	1 x M.2 Key-M 2242/2280 for PCIe Gen4x4, support NVMe 1 x M.2 Key-B 2242 for SATAIII, support storage, share with expansion slot
2.5 Drive Bay	2 x 2.5"Drive Bay (Max. up to 15mm Height Storage)

Front I/O

USB	4 x USB 2.0 4 x USB 3.2 Gen 2
Power Button	1 x Power Button w/LED
Reset Button	1 x Reset Button
COM Port	4 x RS-232/422/485 (Signal selected by BIOS, support auto flow control) 4 x RS-232 (COM5-8, COM7-COM8 by optional)
DP	2 x DP1.4(support DP++)
LAN Port	4 x RJ45
Audio	1 x Mic-In 1 x Line-Out
SIM Slot	1 x Internal SIM Slot
HDMI	2 x HDMI 2.0b
Digital I/O	1 x 16-bit Programmable GPIO (by optional)
Antenna	2 x Covered Antenna Hole

Top I/O

AC/DC Input	1 x 5P Terminal Block
Wire-Control Power On/Off	1 x 3P GRN DIP DINKLE
Antenna	4 x Covered Antenna Hole

Display

Graphic Chipset	Intel® UHD Graphics 770 (i9/i7) Intel® UHD Graphics 730 (i5/i3)
Resolution	2 x HDMI 2.0: 4096x2304@60Hz 2 x DP1.4: 4096x2304@60Hz (support DP++) Support 4 Independent Displays

Audio

Audio Codec	RealTek ALC888S
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Ethernet

LAN Chipset	Intel® Ethernet Connection I219-LM, vPro support (only with i5/ i7/i9 CPU) Intel® Ethernet Controller I226-V
Data Rate Per Port	1 x 10/100/1000 GbE (I219-LM) 3 x 10/100/1000/2.5 GbE (I226-V)

Power Requirement

ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Voltage Input Spec.	DC in Typical 12/24 (+9V~36V)

Software Support

OS	Win10, Win11, Linux
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Mechanical & Environmental

Operating Temp.	Passive Cooling -20°C ~ 40°C (14°F ~ 104°F) with 0.7m/s air flow (65W) -20°C ~ 50°C (14°F ~ 122°F) with 0.7m/s air flow (35W) Active Cooling -20°C ~ 50°C (14°F ~ 122°F) with system Fan (65W) -20°C ~ 60°C (14°F ~ 140°F) with system Fan (35W)
Storage Temp.	-30~70C° (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	156 x 230.1 x 208mm
Weight	TBD
Vibration Test	Random Vibration Operation 1. Test PSD : 0.0505G ² /Hz, 5 Grms 2. System condition : operation mode 3. Test frequency : 10~500 Hz 4. Test axis : X,Y and Z axis 5. Test time : 30 minutes per each axis 6. IEC60068-2-64 Test Fh 7. Storage : SSD Sine Vibration test (Non-operation) 1. Test Acceleration : 2G 2. Test frequency : 5~500 Hz 3. Sweep: 1 Oct/ per one minute. (logarithmic) 4. Test Axis : X,Y and Z axis 5. Test time :30 min. each axis 6. System condition : Non-Operating mode 7. Reference IEC 60068-2-6 Testing procedures Package Vibration Test: 1. Test PSD : 0.026G ² /Hz , 2.16 Grms 2. Test frequency : 5~500 Hz 3. Test axis : X,Y and Z axis 4. Test time : 30 minutes per each axis IEC 60068-2-64 Test Fh
Shock Test	1. Wave from : Half Sine wave 2. Acceleration Rate : 50G 3. Duration Time : 11ms 4. No. of shock : 3 times 5. Test Axis : +/- X, +/-Y, +/-Z axis 6. Operation mode Reference IEC 60068-2-27 testing procedures Test Eb : SSD Shock Test
Drop Test	Package drop test Reference ISTA 2A, Method : IEC-60068-2-32 Test:Ed Test Ea : Drop Test 1. Test phase : One corner, three edges, six faces 2. Test high : 96.5cm 3. Package weight : TBD Kg 4. Test drawing
Mounting Kit	Wall mount kit (default)

Onboard I/O

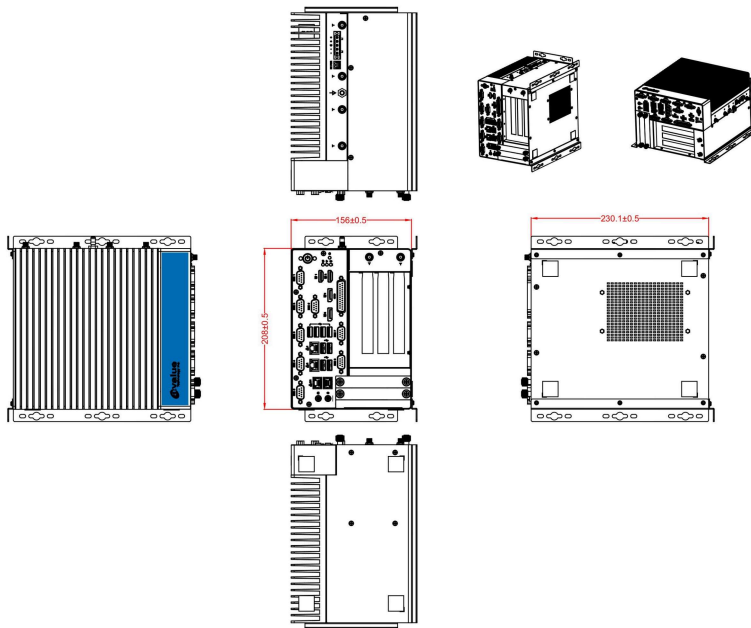
USB	2 x Tpye A USB connector
Buzzer	1 x Buzzer

Packing List

Items	1 x SLP-RPR 1 x Wall Mount Kit 1 x Screw Kit (for M.2, 2.5"Drive Bay, Wall Mount) 4 x Rubber Foot
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System Dimensions

Mechanical Drawing



I/O