

EPS-RPS

Intel® 13th Fanless Rugged Embedded System



Product Features

- 13th Gen Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor
- 2-DIMM Up to 64GB Dual Channel DDR5 SO-DIMM 4800MHz
- 3-Expansion (mPCIe & 2-M.2 E/B)
- Support 5G, Wi-Fi 6E, 2.5G LAN
- Support HW TPM 2.0
- Support H610E/Q670E
- 3-Storage (2.5" Drive Bay & 2-M.2 B/M)
- Rich I/O 8-USB, 6-COM, 2-LAN
- DC in +12V~24V, wide voltage

Specification

System Information

Processor	Default: Intel® Core™ i9-13900TE Processor (35W) Intel® Core™ i7-13700TE Processor (35W) Intel® Core™ i5-13500TE Processor (35W) Intel® Core™ i3-13100TE Processor (35W) Optional: Intel® Core™ i5-13500E Processor (65W)
Platform Controller Hub	Intel® Q670E Express Chipset Intel® H610E Express Chipset
System Memory	2 x SO-DIMM Socket, Max. Up to 64GB DDR5 4800MHz
BIOS Information	AMI UEFI BIOS, 256 Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	CPU & system temperature monitoring and Voltage monitoring
RAID	RAID 0/1 (Q670E sku only)
TPM	TPM 2.0
iAMT	iAMT support for Q670E sku w/i9,i7,i5 CPU

Expansion

M.2	1 x M.2 Key-B 2242/3042/3052 support SATA3/PCIe III/ USB 2.0/USB3.2 Gen. 1 and nano SIM slot 1 x M.2 Key-E 2230 PCIeIII x 1/USB2.0
mPCIe	1 x mPCIe support PCIe III x 1/USB2.0 expansion

Storage

M.2	1 x M.2 Key-M 2242/2280, support PCIe Gen IV x 4 (NVMe SSD)(Q670E sku only) 1 x M.2 Key-B 2242, support SATA (share with expansion slot, Q670E sku support RAID 0/1)
2.5 Drive Bay	1 x 2.5 Drive Bay

Front I/O

USB	4 x USB 3.2 Gen.1
Power Button	1 x Power Button
Reset Button	1 x Reset Button
COM Port	6 x COM (4 x RS232/422/485 + 2 x RS232)
LED Indicator	1 x Storage LED (Yellow) 1 x LTE LED (Green) 1 x Wifi LED (Green)
Audio	1 x Mic-In 1 x Line-Out
Wire-Control Power On/Off	1 x 2-Pin Terminal Block

Rear I/O

USB	2 x USB 3.2 Gen.2 2 x USB 2.0
LAN Port	2 x RJ-45
DP	2 x DP++ 1.4
HDMI	2 x HDMI 2.0b
Antenna	2 x Antenna with dust cover
AC/DC Input	5-Pin Terminal Block

Right I/O

Antenna	2 x Antenna with dust cover
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Left I/O

Antenna	2 x Antenna with dust cover
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Display

Graphic Chipset	Intel® 13th Generation CPU integrated (H610E support 3-display, Q670E support 4-display)
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Audio

Audio Codec	Realtek ALC888s
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Ethernet

LAN Chipset	1 x Intel I226-LM 1 x Intel I219-LM
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Power Requirement

ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
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Power Mode	ATX/AT (ATX is default setting)
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Software Support

OS	Win 10/Win 11 64bit / Linux
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Certification

Certification Information	CE, FCC Class B
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Mechanical & Environmental

Operating Temp.	Fanless Mode (35W) -10°C ~ 55°C (14°F ~ 131°F) Fan Kit Mode (65W) -10°C ~ 50°C (14°F ~ 122°F)
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Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
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Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
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Dimension (W x L x H)	215.8 × 202.5 × 75mm
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Vibration Test	With SSD: 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
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Shock Test	With SSD: 50Grms, IEC 60068-2-27, Half Sine, 11ms
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Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed
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IP Rating	IP50
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Mounting Kit	Wall Mount kit & DIN Rail
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Ordering Information	Intel® 13th Gen Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor
	With Intel® Q670E Chipset
	EPS-RPS-I9Q-A1-1R (I9-13900TE)
	EPS-RPS-I7Q-A1-1R (I7-13700TE)
	EPS-RPS-I5Q-A1-1R (I5-13500TE)
	EPS-RPS-I3Q-A1-1R (I3-13100TE)
	With Intel® H610E Chipset
	EPS-RPS-I9H-A1-1R (I9-13900TE)
	EPS-RPS-I7H-A1-1R (I7-13700TE)
	EPS-RPS-I5H-A1-1R (I5-13500TE)
	EPS-RPS-I3H-A1-1R (I3-13100TE)
