



Features

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



4-Expansion
3-M.2 +
1 mPCIe



Compact Size
215x202x75mm



Rugged
Design
5G/50G



No Vent
-10~55°C



12~24Vdc

Specifications

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
SBC	EBM-ADS

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)
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2.5 Drive Bay	1 x 2.5 Drive Bay
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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
Power Mode	ATX/IAT (ATX is default setting)

Software Support

OS	Win 10/Win 11 64bit / Linux
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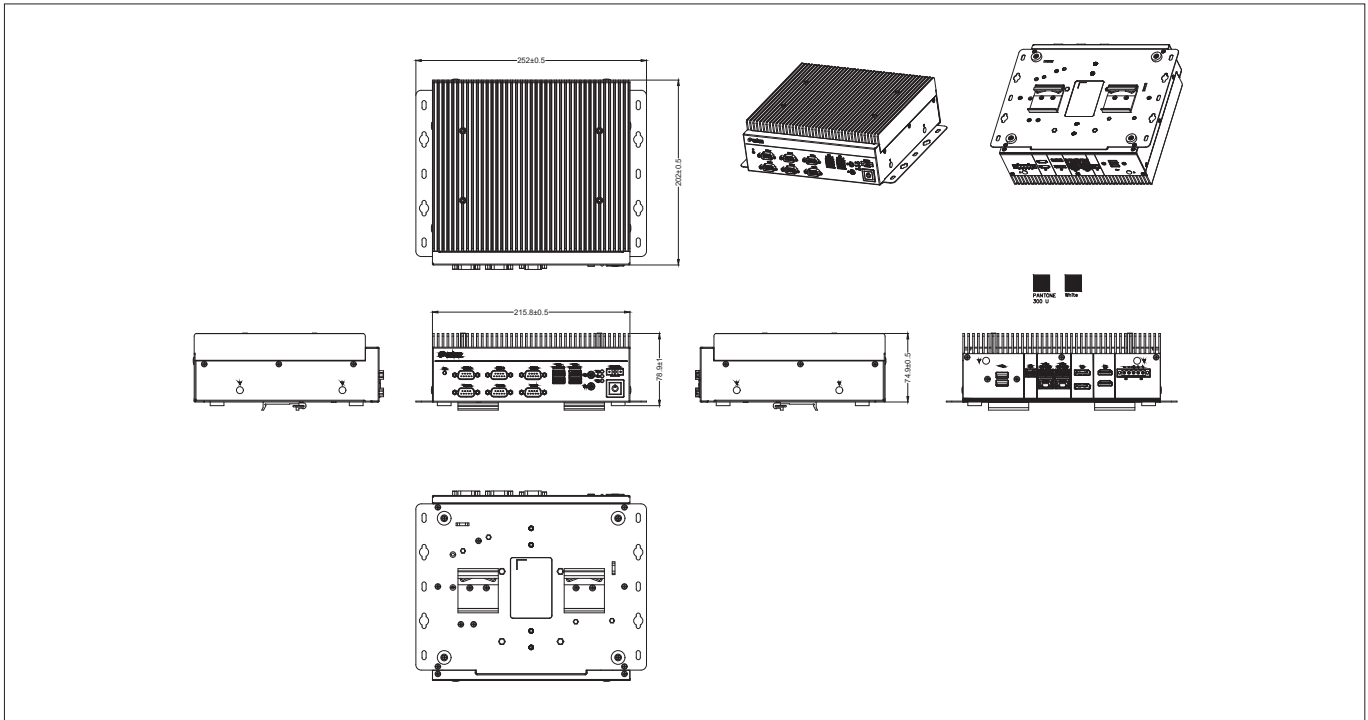
Certification

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)
Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	215.8 x 202.5 x 75mm
Vibration Test	With SSD: 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
Shock Test	With SSD: 50Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed
IP Rating	IP50
Mounting Kit	Wall Mount kit & DIN Rail

Mechanical Drawing



Ordering Information

P/N	Processor	Chipset	Memory	Mounting Kit	Temp.
EPS-RPS-I9H-A1-1R	I9-13900TE	H610E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)
EPS-RPS-I7H-A1-1R	I7-13700TE	H610E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)
EPS-RPS-I5H-A1-1R	I5-13500TE	H610E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)
EPS-RPS-I3H-A1-1R	I3-13100TE	H610E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)
EPS-RPS-I9Q-A1-1R	I9-12900TE	Q670E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)
EPS-RPS-I7Q-A1-1R	I7-12700TE	Q670E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)
EPS-RPS-I5Q-A1-1R	I5-12500TE	Q670E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)
EPS-RPS-I3Q-A1-1R	I3-12100TE	Q670E	8GB DDR5	Wall Mount / Din RAIL	-10°C ~ 55°C (14°F ~ 131°F)

Packing List

Item	Quantity
EPS-RPS system Intel® 13th Fanless Rugged Embedded System	1
Din Rail Kit	2
Screws for M.2 & Din Rail	1(set)
Terminal block to lockable DC Jack cable	1

Optional Items

Item	P/N
Adapter AC/DC 24Vdc/10A	ACC-ADP-240N-01R
Adapter AC/DC 12Vdc/12.5A	ACC-ADP-150N-02R
Power Cord 3P (F)-3P (M) 183cm, USA type	E1702031833R
Power Cord SL-6+SL-3 183cm, EU type	E1702031000R
Power Cord 3P (F)-3P (M) 183cm, Japan w/PSE type	E1702031834R
Power Cord QP-026+SL-3 183cm, UK type	E170P060380R
Power Cord 3P (F)-3P (M) 183cm, Australia type	E1702031831R

I/O Overview

