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# CPT400-RS

*Edge AI GPU Computer with Raptor Lake-S*

*13th/12th CPU up to 125W*



- Intel® Raptor Lake-S 13th/Alder Lake-S 12th Core-i processor (Up to 125W)
- Support 2 x DDR5 SO-DIMM (Up to 64GB)
- HDMI, DisplayPort, VGA, Dual 2.5G LAN
- Support 10 x USB, 4 x COM, 32-bit DIO
- Hot Swappable 2 x 3.5 SSD Tray, 2 x 2.5 SSD Tray, CFast slot
- Dual SIM w/M.2 B-Key ; Dual SIM w/mPCIe slot
- DC-IN 9~48V Wide Power Range
- Support up to 2 x NVIDIA RTX4090 450W GPU/2 x NVIDIA A40 AI GPU

# Specifications

## SYSTEM

CPU	13th/12th Gen Intel® Raptor Lake-S/Alder Lake-S Core i9/i7/i5/i3/Celeron/Pentium (Up to 125W)
Chipset	Intel® R680E
Memory type	DDR5 4800MHz, 2 x 262-pin SO-DIMM, Max. 64GB(Non-ECC/ECC)
Storage Device	2 x 2.5" SATAIII HDD / SSD SWAP tray
Graphics	Intel®UHD Graphics
Display	1 x VGA, 1 x DisplayPort 1.4, 1 x HDMI 2.0b
Storage Slot	1 x mSATA 1 x M.2 B Key 2280/2260/2242 Slot 2 x Hot Swappable 2.5" HDD Tray (support 7-9.5mm height) 2 x Hot Swappable 3.5" HDD Tray 1 x CFAST slot / 1 x M.2 M Key 2280/2262/2242 SSD slot *4 x SATA, 2 x M.2 SATA, and 1 x mSATA, all these 7 SATA ports can be configured in SATA RAID 0/1/5/10.
Ethernet	1 x Intel® I225-LM 2.5GbE LAN + 1 x Intel® Ethernet I225-V 2.5GbE LAN
Audio	Realtek® Audio ALC888S
I/O Chipset	Nuvoton NCT6126D
TPM	TPM Header
Expansion Slot	1 x M.2 3052 / 3042 / 2242 / 2260 / 2280 B key (USB3.0 , SATAIII, PCIeX1) w/ SIM slot 1 x M.2 2230/ 2242 / 2260 / 2280 M key (PCIeX4 NVME, SATAIII) 1 x M.2 2230 E key (CNVi , PCIeX1, USB 2.0) 1 x Mini PCIe Full size (USB2.0 / SATAIII / PCIeX1) 1 x Mini PCIe Full size (USB2.0 / PCIeX1) #1: 1 x PCIe X16 (Gen4) or PCIe X8 (Gen4) #2: 1 x PCIe X4 in PCIe X16 physical connector (Gen4) #3: 1 x PCIe X4 in PCIe X16 physical connector (Gen4) #4: 1 x PCIe X8 in PCIe X16 physical connector (Gen4 x8 = Gen3 x16 Bandwidth) #5: 1 x PCIe X1 in open ended connector (Gen3)

## FRONT I/O

Display	1 x HDMI 2.0b 1 X DP1.4 1X VGA
Terminal Block	1 x 2-pin Terminal Block Remote Power on / off
COM	3 X RS232 + 1 X RS232/ 422/ 485
SMA	6 x SMA hole with rubber cap

DIO	1 x DB37 connector for 32 bit DIO
AUDIO	1 X Mic-in / 1 X Line-out
USB	4 X USB3.2 Gen2 4 X USB3.2 Gen1

#### REAR I/O

SIM	2 x SIM Slot to M.2 B-Key 2 x SIM Slot to mPCIe Slot
CFast	1 x CFast
GPIO	8bit(4in/4out)
Power Input	2 x 4-pin Terminal Block

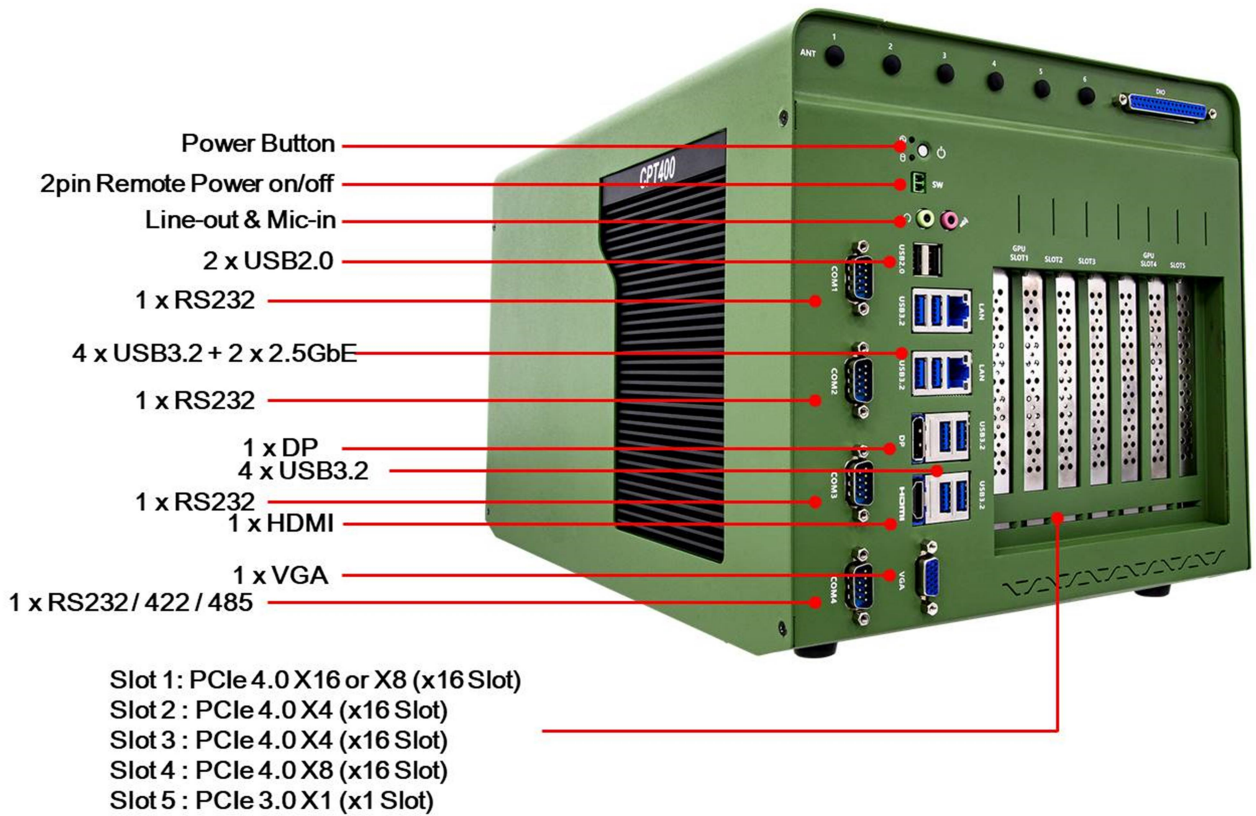
#### INTERNAL SPEAKER

Internal Speaker	1 x Buzzer
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#### MECHANICAL & ENVIRONMENT

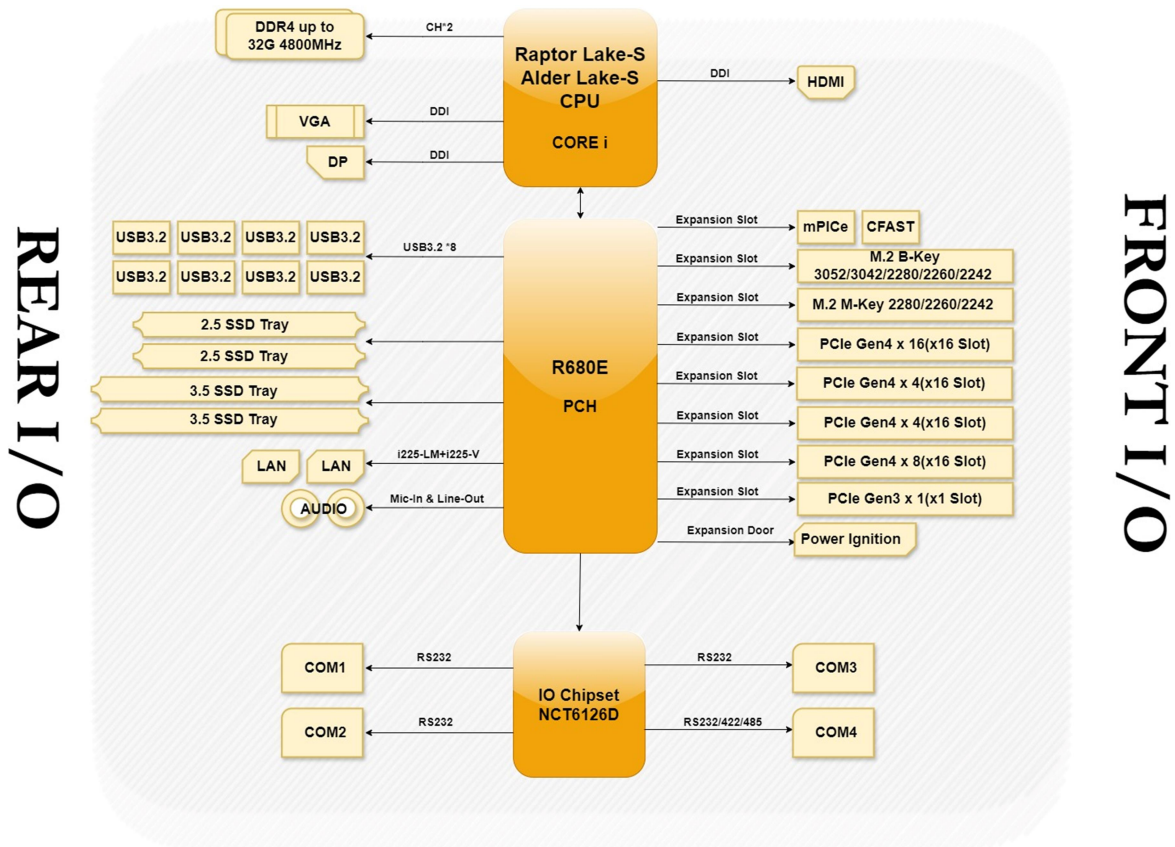
Dimension (W x H x D)	264 x 256 x 415 mm
Thermal Design	FAN
Mounting	Wallmount
Material	Top cover: Aluminum Alloy, Bezel and chassis: Steel
Operating Temp.	-40°C ~ 70°C (w/ 35W CPU, w/o GPU card) -40°C ~ 60°C (w/ 65W CPU, w/o GPU card) -40°C ~ 50°C (w/ 80W CPU, w/o GPU card) -40°C ~ 40°C (w/ 125W CPU, w/o GPU card) *Max OT limit -10°C w/ dual GPU card / with 0.7m/s Air Flow and Wide Temperature Memory/Storage *Please consult with your sales contact window about the Operating Temperature of GPU Card Configurations
Storage Temp.	-40 to +85°C
Relative Humidity	10% to 95%, non-condensing
CE/FCC	CE/FCC Compliance
OS Support	Windows 10 / 11 , Linux by request

# Appearance





## Block Diagram



## Ordering Information

### CPT400-RS

Edge AI GPU Computer with 13th/12th Gen Intel® Raptor Lake-S/Alder Lake-S Core i9/i7/i5/i3/Celeron/Pentium (Up to 125W) ,64G SO-DIMM DDR5 4800MHz(Non-ECC/ECC), Triple display, support 2 x 2.5GbE, 10 x USB, 4 x RS232, 32 bit DIO, 2 x 3.5" SwapSSD Tray, 2 x 2.5" SwapSSD Tray, 1 x CFAST, DC-IN 9~48V, Operating Temperature -20°C~+60°C

\*Expansionable : Support up to 2 x NVIDIA RTX4090 450W GPU/2 x NVIDIA A40 AI GPU or other Same Level GPU.