



ROC200-RH



Key Feature

- MIL-STD 810 Thermal, Shock, Vibration, Humidity
- COM Express Type 6 Support 13th Raptor Lake-H, 11th Tiger Lake-H Processor
- Standard MXM Type 3.1 Support NVIDIA® GTX® / RTX® GPU
- PCIe/104 Express Expansion Slot for Modular Open Structure
- DDR5 SO-DIMM for 13th Raptor lake, up to 64GB
- DDR4 SO-DIMM for 11th Processor, up to 128GB
- Extreme Temperature Support -40°C to 55°C
- 9V~36V DC-IN

Option

- 2x 10G SFP+ port
- 4CH 3G-SDI Frame Grabber Low Latency, NVENC H.264
- 2CH MIL-STD-1553

Specifications

System

COM Express CPU (Type 6)	Intel® Core™ i7-13800HRE 45W Raptor Lake 13 th Gen, 14C, 2.5 /5.0 GHz, 24MB cache Intel® Xeon® W-11865MLE 45W Coffee Lake 11 th Gen, 8C, 1.5 /4.5 GHz, 12MB cache
GPU Module Options	NVIDIA® Ampere RTX A1000, 60W, 4GB GDDR6, 2,048 CUDA Cores NVIDIA® Ampere RTX A2000, 60W, 8GB GDDR6, 2,560 CUDA Cores NVIDIA® Ampere RTX A4500, 80W/115W, 16GB GDDR6, 5,888 CUDA Cores NVIDIA® Ada Lovelace RTX 3500 Ada, 115W, 12GB GDDR6, 5,120 CUDA Cores NVIDIA® Ada Lovelace RTX 5000 Ada, 115W, 16GB GDDR6, 9,728 CUDA Cores
Compatibility	COM Express® TYPE 6

Display

DP	2x Display Port outputs from GPU
VGA	1x output from COM Express (option)

Storage

M.2	1x 2280 M-key (SATA only)
SATA	2x SATA III

Expansion

PCIe/104	Type2
Mini-PCIe	2x

Ethernet

Ethernet	2 x 10/100/1000/2.5G Ethernet Ports(One from CPU module) 2x 10GbE SFP+ (option) 4x 1GbE T-base RJ45 (option)
----------	--

Front I/O

USB	4x USB 3.0
Serial Port	1x RS232/422/485
Audio	1x MIC-in, 1x Line-out
LAN	2x 2.5GbE RJ45
Display	2x DP ports
Power switch	1x Power Button with LED back light
LED	1x HDD/SSD LED

Rear I/O

Serial port	2x RS232/422/485 (option)
LAN	4x 1GbE RJ45 (option)
	2x 10GbE SFP+ (option)
Power in	1x 4P Terminal jack

Power System

Input Power: SYS	9~36V (4P Terminal Block)
Power Consumption	Max. 120W

Mechanical and Environmental

Dimension	220 x 300 x 88 mm
Operating Temp	-20°C to 55°C
Extreme Temp	-40°C to 55°C
Storage Temp	-40°C to 85°C
Relative Humidity	10% to 90%, non-condensing

Standard Compliance

OS Support	Windows 10/11, Ubuntu
------------	-----------------------

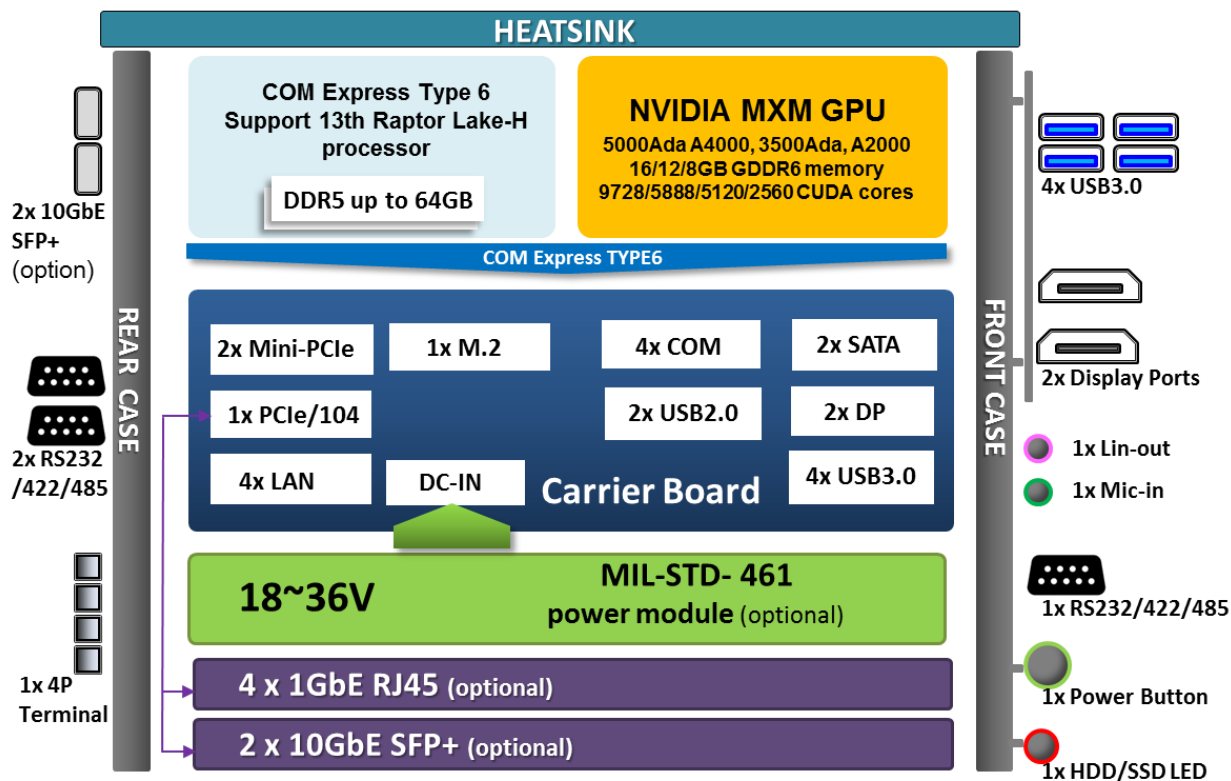
*All specifications and photos are subject to change without notice.

Appearance



4x 1GbE RJ45 (option)

Block Diagram



Ordering Information

CPU/GPU Table

CPU Products List

Type	CPU	Power	SPEC
13 th CPU	Intel® Core™ i7-13800HRE	45W	Raptor Lake 13 th Gen, 14C , Freq. 2.5 /5.0GHz, 24MB
11 th CPU	Intel® Xeon® W-11865MLE	25W	Tiger Lake 11th Gen, 8C , Freq. 1.5 /4.5 GHz, 12MB

GPU Products List

GPU	CUDA Cores	Max power	UL Benchmarks
NVIDIA® Ampere RTX A1000	2,048 CUDA Cores	60W	TBC
NVIDIA® Ampere RTX A2000	2,560 CUDA Cores	80W	5952
NVIDIA® Ampere RTX A4500	5,888 CUDA Cores	130W	12835

NVIDIA® Ada Lovelace RTX 3500 Ada,	5,120 CUDA Cores	115W	TBC
NVIDIA® Ada Lovelace RTX 5000 Ada	9,728 CUDA Cores	115W	TBC

Model No. List

COMe Type	Model Name	Configuration
Type6	ROC200-RH-A45	CPU Board: i7-13800HRE / MXM GPU: Quadro A4500
	ROC200-RH-50A	CPU Board: i7-13800HRE / MXM GPU: Quadro 5000Ada
	ROC200-RH-35A	CPU Board: i7-13800HRE / MXM GPU: Quadro 3500Ada
	ROC200-RH-A20	CPU Board: i7-13800HRE / MXM GPU: Quadro A2000
	ROC200-RH-A10	CPU Board: i7-13800HRE / MXM GPU: Quadro A1000
	ROC200-TH-A45	CPU Board: W-11865MLE / MXM GPU: Quadro A4500
	ROC200-TH-A20	CPU Board: W-11865MLE / MXM GPU: Quadro A2000