



LAND



SEA



AIR

AV600-RH-A45

Military IP65 GPU Computer



- MIL-STD 810 Thermal, shock, vibration, Humidity / EMI / EMC
- IP65 Chassis with D38999 connectors
- Intel® 13th Gen. Raptor Lake-H Core® I7-13800 HRE processor
- Up to 96GB DDR5 5200MHz SO-DIMM, non-ECC
- NVIDIA RTX™ A4500 /16GB GDDR6 memory 5888 CUDA cores
- 18V~36V DC-Input
- Extreme Temperature : -40°C to +60°C Degree
- Dimensions : 250(W) x 350 (L) x 122 (H) mm

Special Request:

- Frame Grabber : 4xCH HD-SDI
- 10GbE : Dual 10GbE (Intel X710) Ethernet Ports
- Conformal coating on electronics



Specifications

System

CPU	Intel® 13 Gen. Raptor Lake-H Processors, integrated Intel® Iris® Xe Graphics - Intel® Core® i7-13800HRE, 45W , 14C/20T, Freq. 2.5/5 GHz, 24MB cache
Memory type	16GB DDR5 5200 SO-DIMM, Up to 96GB , non-ECC
GPU	NVIDIA RTX™ A4500, 16GB GDDR6 memory, 5888 CUDA cores
Expansion Slot	2x Full-size mini PCIe (with SIM card slot) 2x M.2 2280 M key (both PCIe x4 from PEG) 2x SATAIII

Storage

SATA	1x 2.5" 4TB SSD , Hot Swappable SSD/HDD slot
M.2	1x M.2 2280 M key 512GB SSD+ 1x M.2 2280 M key 4TB SSD

Ethernet

Ethernet	2x 10/100/1000 /2.5G Ethernet Ports (One from CPU module)
----------	---

Front I/O

DC-IN	1x DC-IN with D38999 connector
X1	1x USB3.0 with D38999 connector
X2	1x mDP with D38999 connector
X3	1x GbE T-Base with D38999 connector
X4	1x GbE T-Base with D38999 connector
LED	1x SSD/HDD LED indicator
switch	1x IP65 power button , with LED indicator
Storage	1x Swappable tray

Power

Power input	18V~36V DC-Input
-------------	------------------

Application, Operating System

Application	Military Platforms Requiring Compliance Where Harsh Temperature, Shock, Vibration, Altitude, Dust Conditions.
-------------	---

Physical

Dimension	250(W) x 350 (L) x 122 (H)mm
Weight	9.8Kg
Chassis	Aluminum Alloy
Heatsink	Heatsink Aluminum Alloy with Air Cooler, Corrosion Resistant

Environmental

Green Product	RoHS, WEEE compliance
---------------	-----------------------

Operating Temp.	-40°C to +60°C
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95%, non-condensing
Operation System	
Operating System	Windows 10 / 11 64Bit, Linux by option
RoHS	RoHS compliant

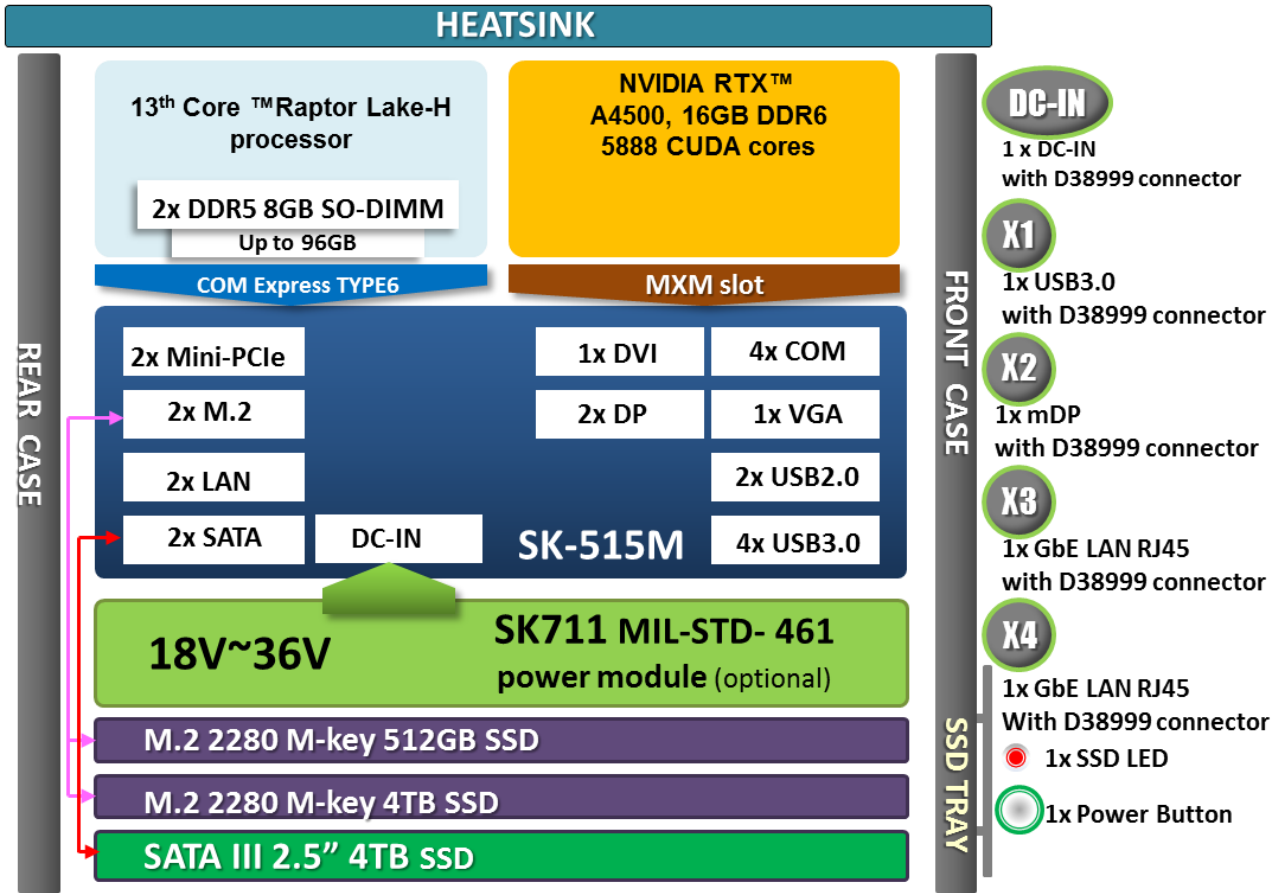
*All specifications and photos are subject to change without notice.

Ordering Information

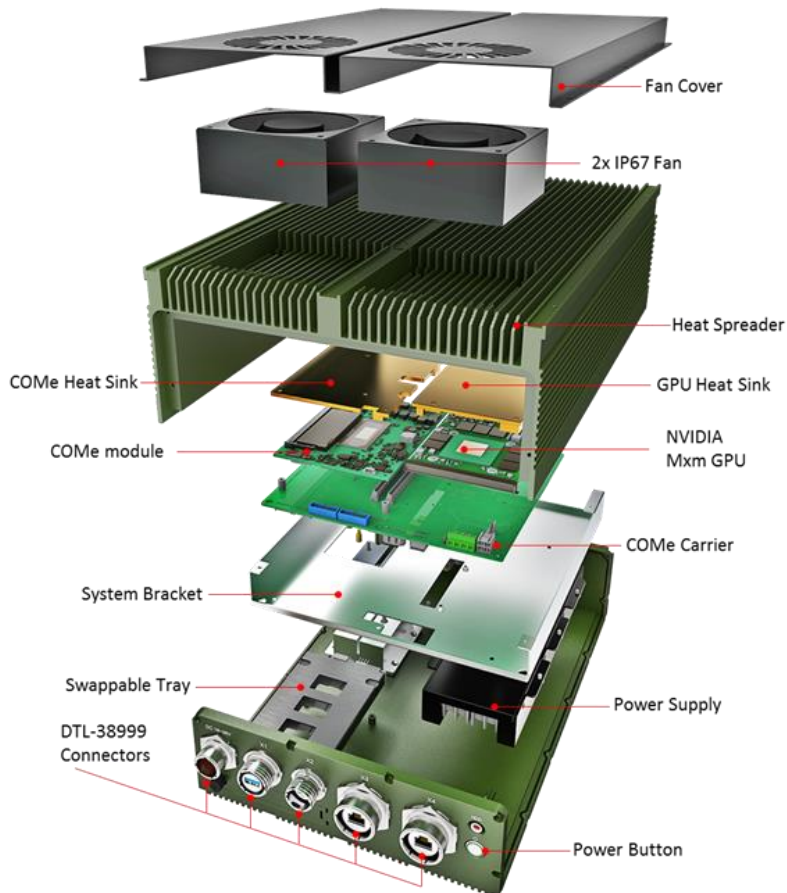
IP65 Military Mission GPU Computer Intel® Raptor Lake-H I7-13800HRE, up to 96GB 5200 MHz SO-DIMM , 4x COM, 1x USB3.0, 2x USB 2.0, 1x VGA, 4x DI/DO, MXM GPU RTX A2000 4GB/8GB & RTX A4500 16GB GDDDR6 Memory, MIL-STD-461/1275 Power DC-IN 18~36V, Operation Temp. -40°C to 60°C, RoHS

Model No.	AV600-RH-A204	AV600-RH-A208	AV600-RH-A45
CPU	Intel® 13th Raptor Lake-H i7-13800HRE		
RAM	16GB DDR5 5200MHz SO-DIMM (Up to 96GB)		
MXM GPU	MXM A2000(4G)	MXM A2000(8G)	MXM A4500(16G)
Storage	2x 2.5" SATA III SSD (up to 16TB each)		
	1x M.2 2280 NVMe SSD (up to 2TB)		
I/O	Power	1x DC-IN	
	X1	4x RS232 (RS422/485 option)	
	X2	2x GbE + 2x USB2.0	
	X3	4x DI/4x DO + 1x VGA	
	X4	1x USB3.0	
3G-SDI	2x In/Out 3G-SDI		

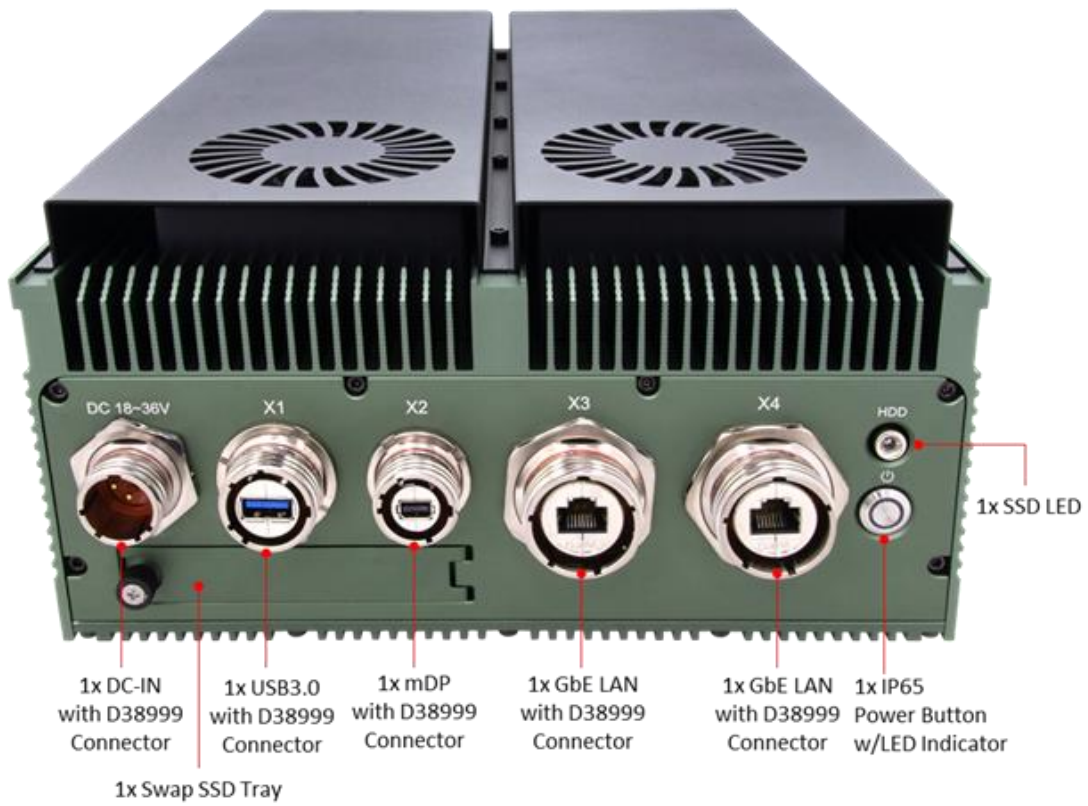
Block Diagram



Thermal Solution



Appearance



Dimension

