



AVBOO-KH-AHS

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: 4x CH 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				
	2 x Full-size mini PCle (with SIM card slot)				
Expansion Slot	2 x M.2 2280 M key (both PCIe x4 from PEG)				
	2 x SATAIII				
Storage					
SATA	1 x 2.5" 4TB SSD , Hot Swappable SSD/HDD slot				
M.2	1 x M.2 2280 M key 512GB SSD+ 1x M.2 2280 M key 4TB SSD				
Ethernet					
Ethernet	2 x 10/100/1000 /2.5G Ethernet Ports (One from CPU module)				
Front I/O					
DC-IN	1 x DC-IN with D38999 connector				
X1	1 x USB3.0 with D38999 connector				
X2	1 x mDP with D38999 connector				
X3	1 x GbE T-Base with D38999 connector				
X4	1 x GbE T-Base with D38999 connector				
LED	1 x SSD/HDD LED indicator				
switch	1 x IP65 power button , with LED indicator				
Storage	1 x Swappable tray				
Power					
Power input	18V~36V DC-Input				
Application , Operatin	g System				
Application	Military Platforms Requiring Compliance Where Harsh Temperature, Shock,				
Application	Vibration, Altitude, Dust Conditions.				
Physical					
Dimension	250(W) x 350 (L) x 122 (H)mm				
Weight	9.8 kg				
Chassis	Aluminum Ally				
Heatsink	Heatsink Aluminum Alloy with Air Cooler, Corrosion Resistant				
Environmental					
Green Product	RoHS, WEEE compliance				

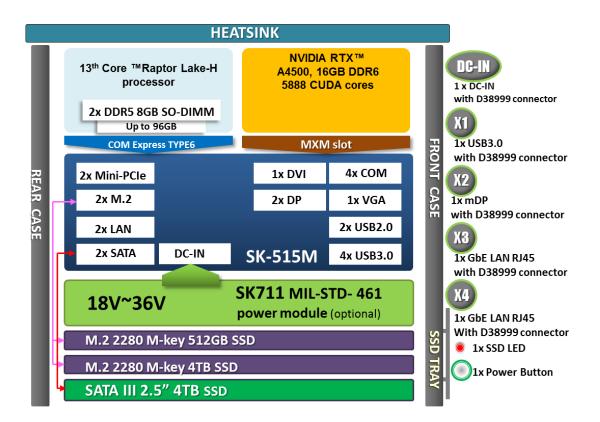
Operating Temp.	-40°C to +60°C
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95%, non-condensing
Operation System	
Operating System	Windows 10 / 11 64Bit, Linux by option
RoHS	RoHS compliant

Ordering Information

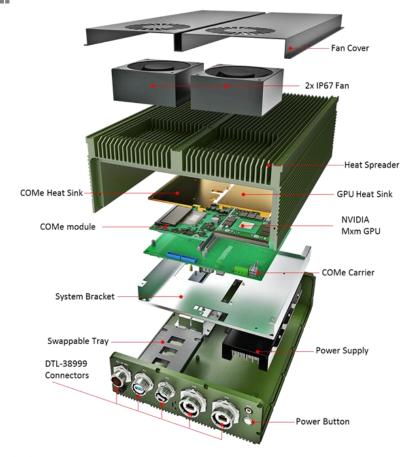
IP65 Military Mission GPU Computer Intel® Raptor Lake-H I7-13800HRE, up to 96GB 5200 MHz SO-DIMM , 4 x COM, 1 x USB3.0, 2 x USB 2.0, 1 x VGA, 4x DI/DO, MXM GPU RTX A2000 4GB/8GB & RTX A4500 16GB GDDDR6 Memory, MIL-STD-461/1275 Power DC-IN $18\sim36V$, Operation Temp. -40°C to 60°C, RoHS

Мо	del No.	AV600-RH-	AV600-RH-	AV600-RH-	AV600-RH-	AV600-RH-		
		A204	A208	A45EH	A45EH-C	A45EH-D		
	CPU		Int	el® 13th Raptor L	ake-H i7-13800	HRE		
	RAM	16GB DDR5 5200MHz SO-DIMM (Up to 96GB)						
MXM GPU		MXM	MXM	MXM	MXM	MXM A4500(16G)		
		A2000(4G)	A2000(8G)	A4500(16G)	A4500(16G)	MXM A4300(10d)		
Storage		1 x M.2 2280 NVMe 512GB SSD						
		1 x 2.5" SATA III SSD 1 x 2.5" SATA III 4TB SSD						
1x M.2 2280 NVMe 4TB S								
I/O	Power	2456404 4	- N: -l l/C:l\	24ZC4PA, 4pin, DC-IN,				
		24FC4PA, 4pii	n, Nickel(Silver),	Black Zinc Nickel(Black)				
Х1		LICDOETV / 7 A A	IFO1O Nichaladad	USB3FTV7AZN, USB3.0 TYPE A,				
		USBSFTV/AI	IF312, Nickel pla	Black zinc nickel (Black)				
	X2	MDDET)/	7 A N F 2 1 2 - N i al co	MDPFTV7AZNF312, mini-DP,				
		MIDPETV	7ANF312, Nicke	Black zinc Nickel(Black)				
	Х3	DIETV (CA	امراماها ۱۸۱۳	RJFTV6A7SA1ZN, CAT6A RJ45,				
		KJFTV6A7	SA1N, nickel pl	Black zinc nickel (Black)				
	X4	DIETVA 7	المالال منطرها ما	RJFTV6A7SA1ZN, CAT6A RJ45,				
		KJF I VOA /	SA1N, nickel pl	Black zinc nickel (Black)				
3G-SDI 2 x In/Out 3G-SDI (Optional)				SDI (Optional)				

Block Diagram



Thermal Solution



Appearance



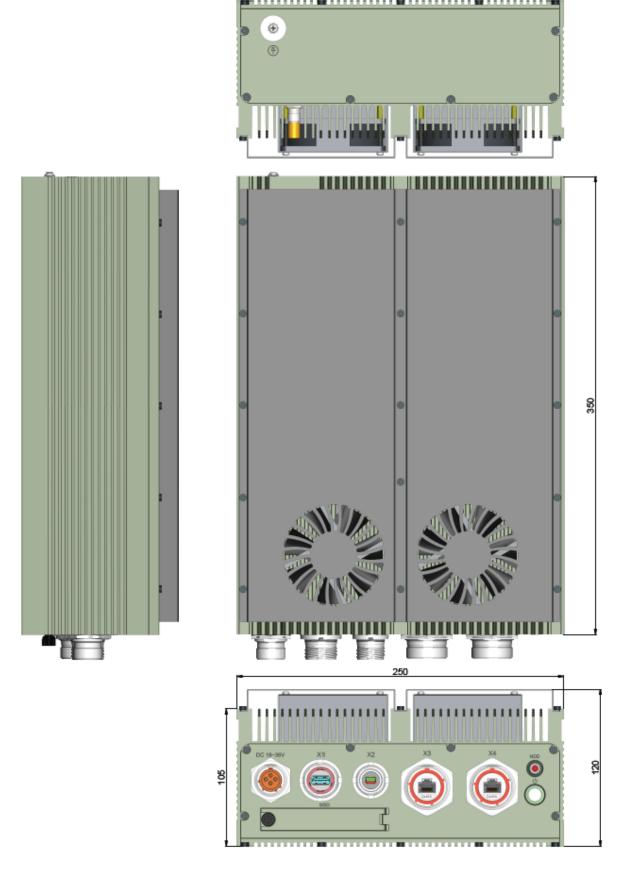
1x Swap SSD Tray



AV600-RH-A45EH-D: Black Zinc Nickel (Black) conn. I/O with Handle.



Dimension



This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representative.