



AV600-MH-A50

MILITARY IP65 GPU COMPUTER



- MIL-STD-810 Thermal, Shock, Vibration, Humidity / EMI / EMC
- IP65 Chassis with D38999 Connectors
- Intel® 14th Gen Meteor Lake Core™ Ultra 7 Processors
- Up to 96GB DDR5 5200MHz SO-DIMM, non-ECC
- NVIDIA Lovelace 5000 Ada /16GB GDDR6 memory 9728 CUDA cores
- 18V~36V DC-Input
- Extreme Temperature: -40°C to +60°C
- Dimensions: 250(W) x 350 (L) x 122 (H) mm

Special Request:

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

Specifications

System

CPU	Intel® 14th Gen Meteor Lake Core™ Ultra 7 Processors, Intel® Arc™ graphics - Intel® Core® Ultra 165H, 65W, 6P+8E+2LPE/22T, Freq. 1.4/5 GHz, 24MB cache
Memory type	16GB DDR5 5200 SO-DIMM, Up to 96GB, non-ECC
GPU	NVIDIA Lovelace Ada 5000, 16GB GDDR6 memory, 9728 CUDA cores
Expansion Slot	2 x Full-size mini PCIe (with SIM card 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)
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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
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Application, Operating System

Application	Military Platforms Requiring Compliance for Harsh Temperature, Shock, Vibration, Altitude, and Dust Conditions
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Physical

Dimensions	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
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Operating Temp.	-40°C to +60°C
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95%, non-condensing

Operation System

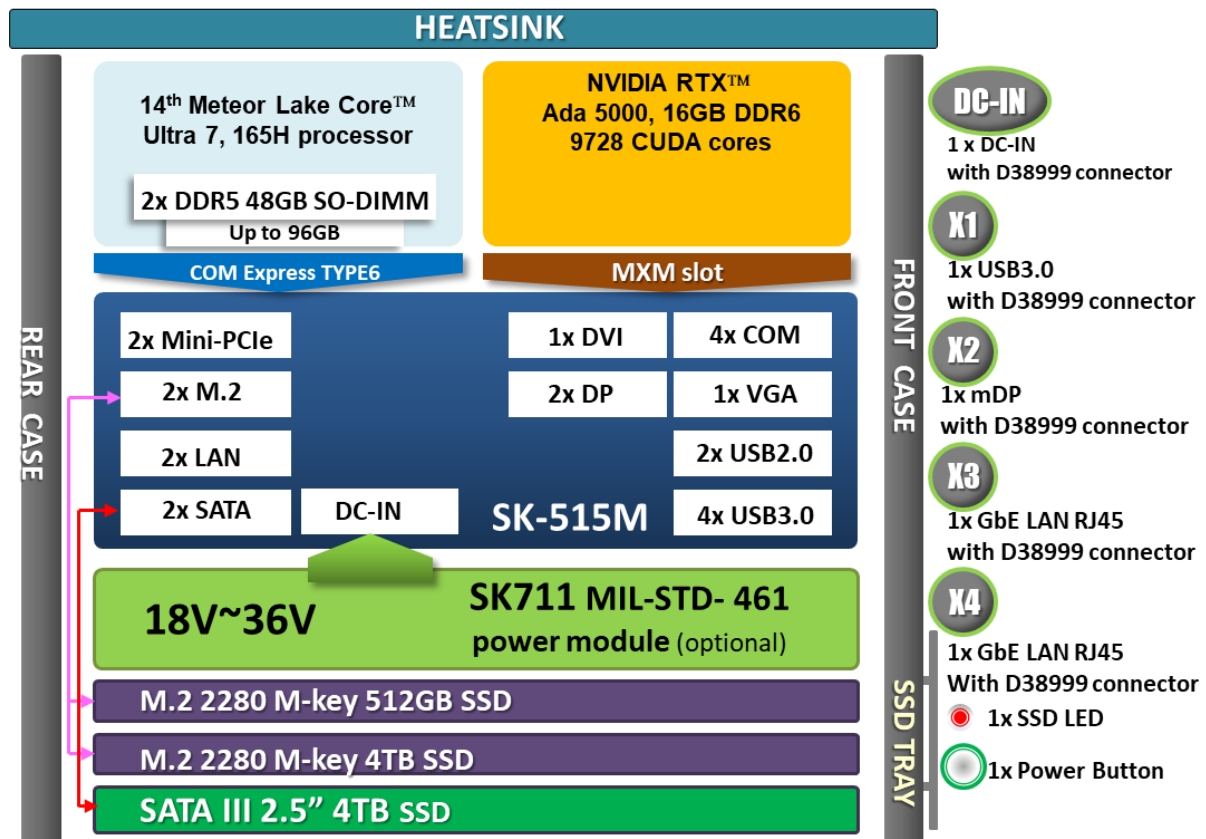
Operating System	Windows 10 / 11 64Bit, Linux by option
RoHS	RoHS compliant

Ordering Information

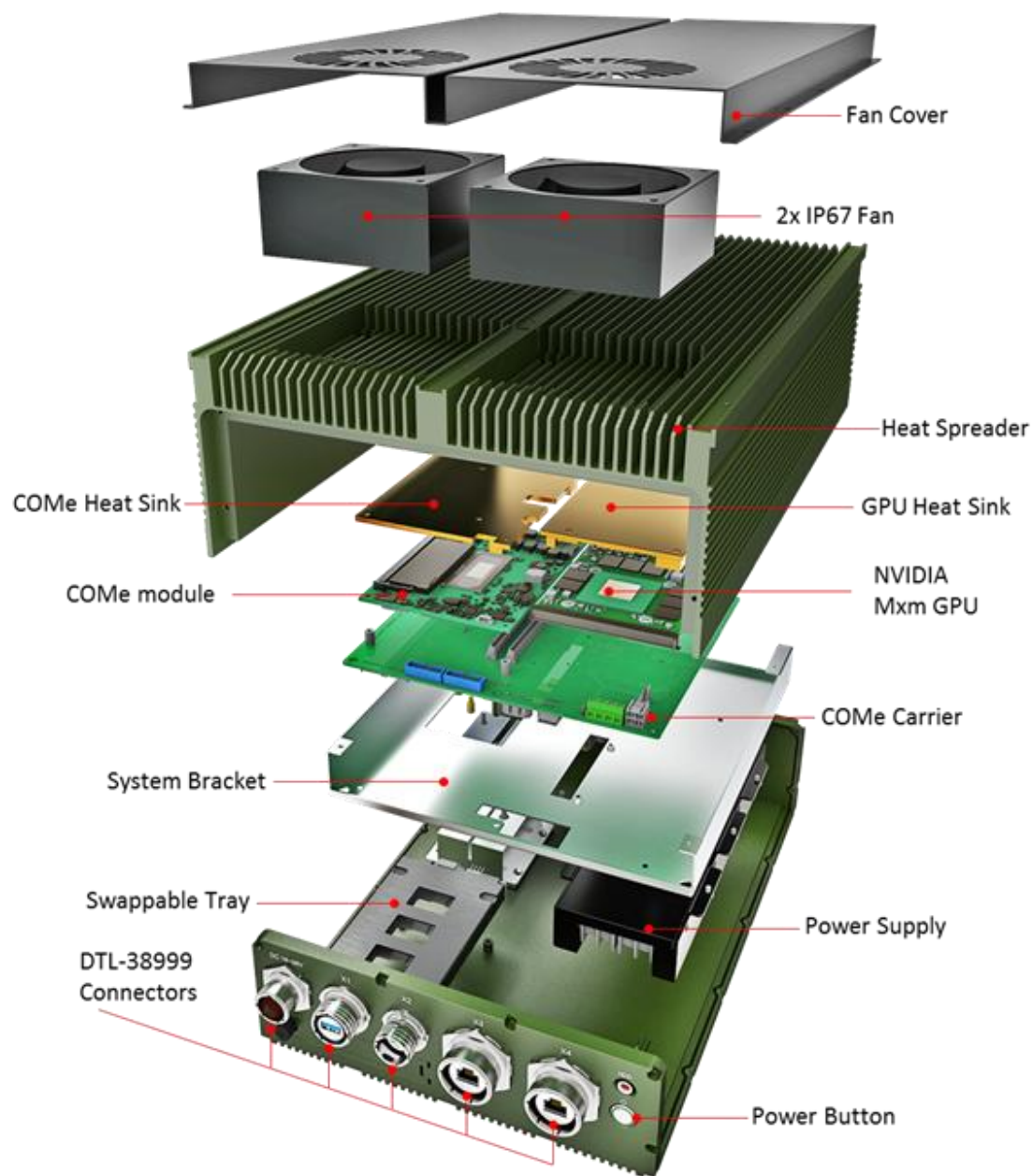
IP65 Military Mission GPU Computer Intel® Meteor Lake Core Ultra 7, 165H Processor, up to 96GB 5200 MHz SO-DIMM, 4x COM, 1x USB3.0, 2x USB 2.0, 1x VGA, 4x DI/DO, MXM GPU RTX A2000 8GB & RTX Ada 3500 12GB & A4500 16GB & Ada 5000 16GB GDDDR6 Memory, MIL-STD-461/1275 Power DC-IN 18~36V, Operation Temp. -40°C to 60°C, RoHS

Model No.		AV600-MH-A20	AV600-MH-A35	AV600-MH-A45EH-C	AV600-MH-A45EH-D	AV600-MH-A50
CPU		Intel® 14th Meteor Lake Core Ultra 7- 165H Processor				
RAM		16GB DDR5 5200MHz SO-DIMM (Up to 96GB)				
MXM GPU		NVIDIA A2000(8G)	NVIDIA Ada3500(12G)	NVIDIA A4500(16G)	NVIDIA A4500(16G)	NVIDIA Ada 5000(16G)
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 SSD				
I/O	Power	24FC4PA, 4pin, Nickel (Silver), compatible TVS07RF-13-4PA			24ZC4PA, 4pin, DC-IN, Black zinc nickel (Black)	
	X1	USB3FTV7ANF312, Nickel plating (Silver), USB 3.0 TYPE A			USB3FTV7AZN, USB3.0 TYPE A, Black zinc nickel (Black)	
	X2	MDPFTV7ANF312, Nickel plating (Silver), mini-DP			MDPFTV7AZNF312, mini-DP, Black zinc nickel (Black)	
	X3	RJFTV6A7SA1N, nickel plating (Silver), CAT6A RJ45			RJFTV6A7SA1ZN, CAT6A RJ45, Black zinc nickel (Black)	
	X4	RJFTV6A7SA1N, nickel plating (Silver), CAT6A RJ45			RJFTV6A7SA1ZN, CAT6A RJ45, Black zinc nickel (Black)	
3G-SDI		2 x In/Out 3G-SDI (Option)				

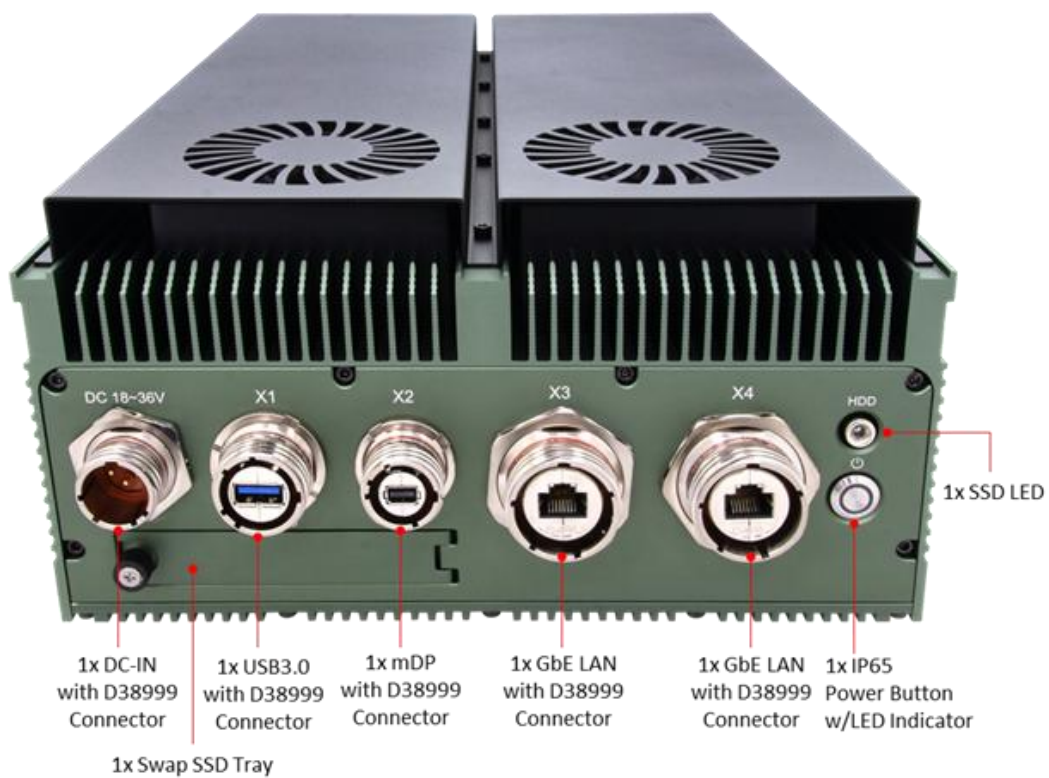
Block Diagram



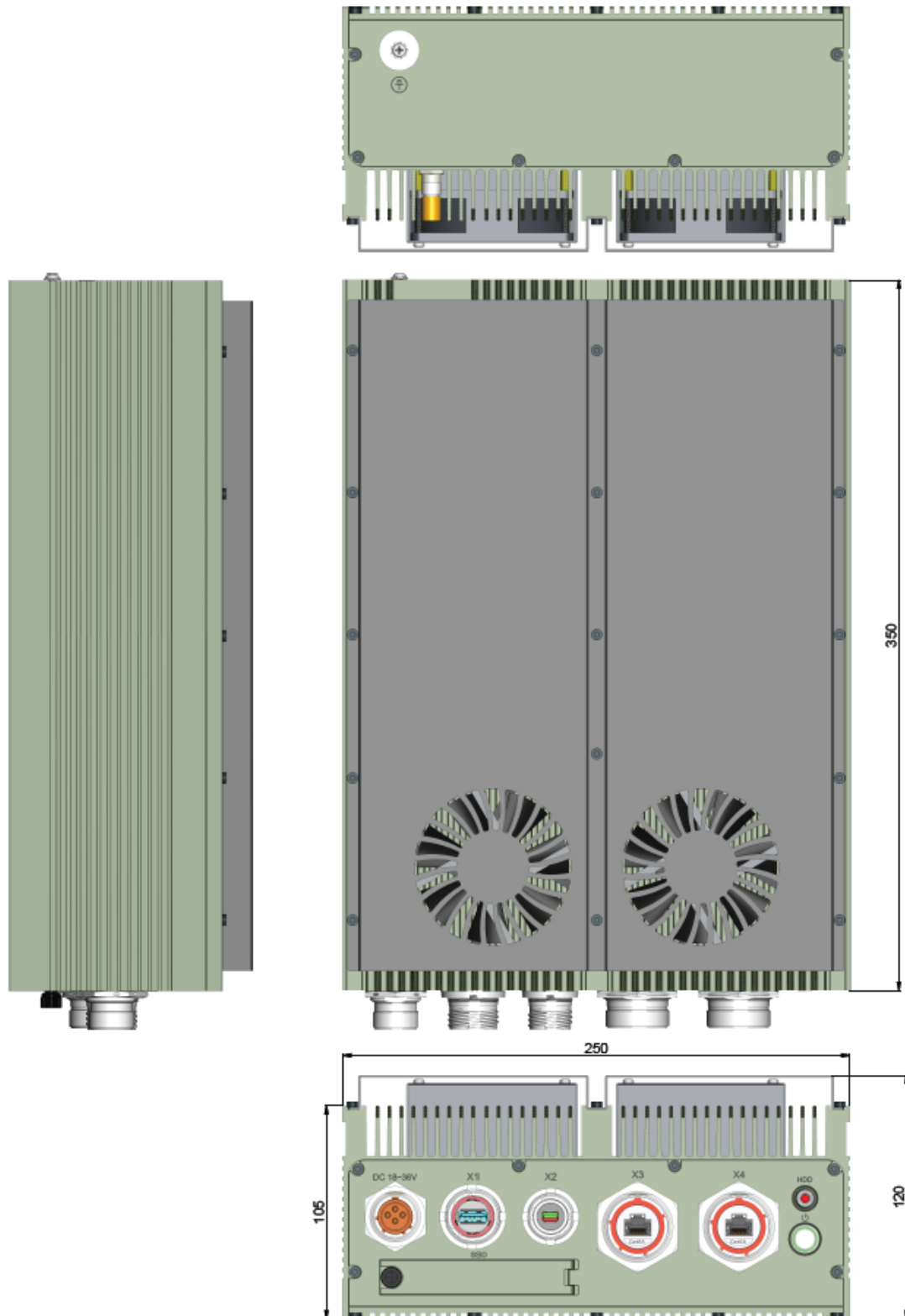
Thermal Solution



Appearance



Dimension



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