



LAND



SEA



AIR

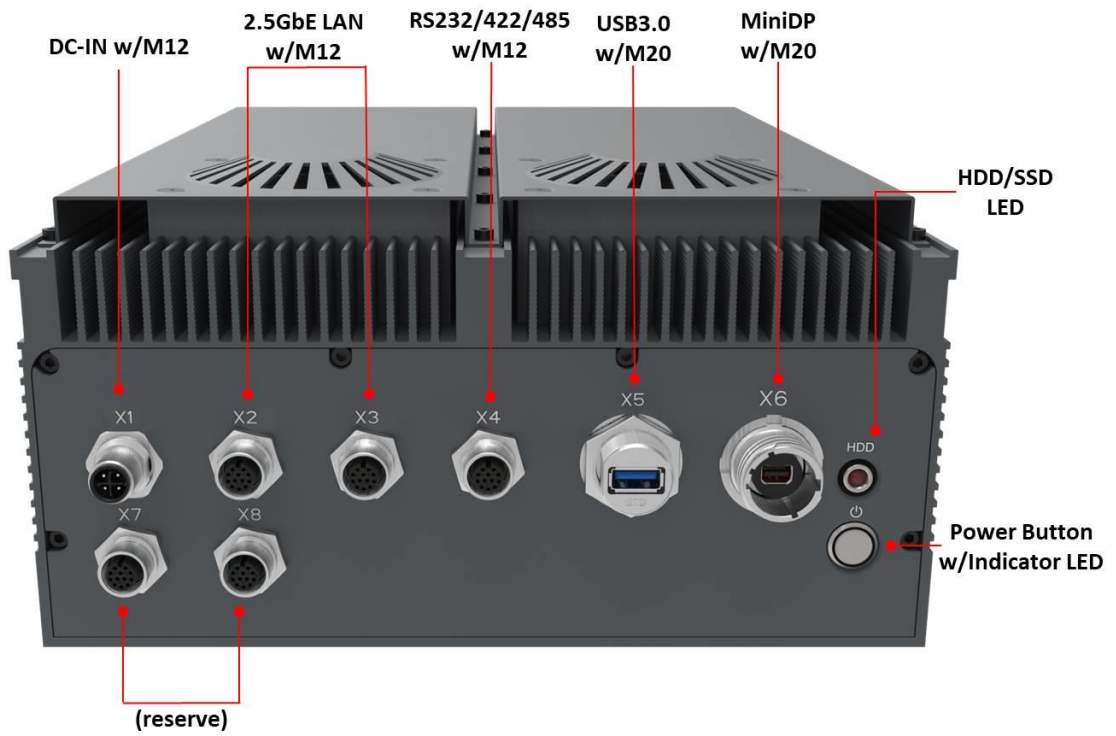
# IV320-RS-F

IP66 TACICAL MARITIME GPU COMPUTER



- AI Optimized IP66 Rugged GPU Computer
- Enabling Persistent Maritime ISR with Autonomous, Coordinated USVs
- Support Intel® 14/13th Gen Raptor Lake-R/S, Core i9/i7
- Up to 64GB DDR5 5200 MHz SO-DIMM, non-ECC and ECC
- Support NVIDIA® RTX 4000 SFF Ada (20GB GDDR6, 6,144 CUDA); RTX A1000 (8GB GDDR6, 2,304 CUDA) w/Fan Kit
- Rugged waterproof M20/M12 connectors
- 2 x LAN (2.5GbE), 1 x COM; 1 x miniDP; 1 x USB3.0
- Extended Operating Temperature -20°C to +60°C
- MIL-STD-810 Anti Vibration, Shock

## Appearance



# Specifications

## SYSTEM

CPU	Intel® 14th Raptor Lake-R Core i9-14900T, 24C(8P+16E), 32T, 1.1/5.5GHz, 36M Cache, TDP 35W(Turob mode 106W) Intel® 13th Raptor Lake Core i9-13900TE, 24C(8P+16E), 32T, 1.0/5.0GHz, 36M Cache, TDP 35W
Memory type	Up to 64GB DDR5 5200 MHz SO-DIMM, non-ECC and ECC
Chipset	Intel® Q670E/R680E Chipset
GPU Option	NVIDIA® RTX 4000 SFF Ada NVIDIA® RTX A1000
Expansion Slot	1 x PCIe 4.0 x 16 1 x M.2 2242/2280 M-Key PCIe 3.0 x 4

## STORAGE

SATA	2 x 2.5" SSD SATAIII Internal
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## TPM

TPM	Onboard TPM2.0
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## FRONT I/O

X1	1 x DC-IN w/M12 waterproof connector
X2	1 x 2.5Giga LAN w/M12 waterproof connector
X3	1 x 2.5Giga LAN w/M12 waterproof connector
X4	1 x RS232/422/485 w/M12 waterproof connector
X5	1 x USB3.0, with M20 waterproof connector
X6	1 x miniDP w/M20 waterproof connector
X7	(reserve)
X8	(reserve)
SSD LED	1 x SSD LED
Switch	1 x IP66 power button

## REAR I/O

Others	Antenna(Optional)
GND	1 x GND

## POWER REQUIREMENT

Power Input	18V~36V DC-IN
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## OPERATING SYSTEM

Operating System	Windows® 10 IoT Enterprise 2021 LTSC (64-bit, 21H2)
	Windows® 11 IoT Enterprise 24H2 LTSC (64-bit)
	Linux (Support by request)

## PHYSICAL & ENVIRONMENT

Dimension	250 x 325 x 100 mm (W x L x H)
Chassis	Aluminum Ally
Heatsink	Heatsink Aluminum Alloy, Corrosion Resistant
Fan Kit	W/GPU SKU
Green Product	RoHS, WEEE design to meet
EMC	EMC design to meet
Operating Temp.	-20°C to +60°C
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95%, non-condensing
MIL-STD-810 (Design To Meet)	<p>MILS-STD-810 Design to meet :</p> <p>Method 501, Operational Temperature, high / Procedure II: +50°C, two-hour dwell, four cycles</p> <p>Method 501, Storage Temperature, high / Procedure I: +70°C, two-hour dwell, four cycles</p> <p>Method 502, Operational Temperature, low / Procedure II: -20°C, two-hour dwell, four cycles</p> <p>Method 502, Storage Temperature, low / Procedure I: -40°C, two-hour dwell, four cycles</p> <p>Method 514, Vibration / Category 24/Non-Operating (Category 20 &amp; 24, Vibration)</p> <p>Method 514, Vibration / Category 20/Operating (Category 20 &amp; 24, Vibration)</p> <p>Method 516, Shock / Procedure V Non-Operating (Mechanical Shock)</p> <p>Method 516, Shock / Procedure I Operating (Mechanical Shock)</p>

## Ordering Information

Model	IV320-RS-X	IV320-RS-X10G	IV320-RS-F	IV320-RS-F10G
CPU	i9-14900T i9-13900TE			
GPU	N/A	N/A	RTX4000 SFF Ada RTX A2000	
Memory	SO-DIMM DDR5 Up to 64GB			
LAN	2 x 2.5GbE	1 x 10GbE 1 x 2.5GbE 1 x 1GbE	2 x 2.5GbE	1 x 10GbE 1 x 2.5GbE 1 x 1GbE
Display	1 x MiniDP			
USB	1 x USB			
COM	1 x RS232/422/485			
Power	18~36V			

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