



LAND



SEA



AIR

IV320-RS-XL4

FULL IP65 AI EDGE COMPUTER



13th
Raptor lake

14th
Raptor Lake Refresh

- AI Optimized IP65 Rugged Computer
- Full IP65 sealed enclosure for harsh, wet and dusty environments
- Support Intel® 14/13th Gen. Raptor Lake-R/S, Core i9/i7
- Up to 64GB DDR5 5200 MHz SO-DIMM, non-ECC
- Support NVIDIA® L4 (24GB GDDR6, 7,424 CUDA)
- Rugged waterproof D38999/M20/M12 connectors
- 3 x LAN(10GbE/2 x 2.5GbE), 1 x miniDP ; 2 x USB3.0
- Extended Operating Temperature -20°C to +60°C
- MIL-STD-810 Anti Vibration, Shock design to meet

Specifications

SYSTEM

CPU	Intel® 14th Raptor Lake-R Core i9-14900T, 24C (8P+16E), 32T, 1.1/5.5GHz, 36M Cache, TDP 35W (Turbo mode 106W) Intel® 13th Raptor Lake Core i9-13900TE, 24C (8P+16E), 32T, 1.0/5.0GHz, 36M Cache, TDP 35W Intel® 13th Raptor Lake Core i7-13700TE, 16C (8P+8E), 24T, 1.3/4.8GHz, 30M Cache, TDP 35W
Memory Type	Up to 64GB DDR5 5200 MHz SO-DIMM, non-ECC or ECC (Base on chipset)
Chipset	Intel® Q670E/R680E Chipset
GPU Option	NVIDIA® L4

STORAGE

SATA	1 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 10Giga LAN w/D38999 waterproof connector
X2	1 x USB3.0, with M20 waterproof connector
X3	1 x USB3.0, with M20 waterproof connector
X4	1 x 2.5Giga LAN w/M20 waterproof connector
X5	1 x 2.5Giga LAN w/M20 waterproof connector
X6	1 x miniDP w/D38999 waterproof connector
DC-IN	1 x DC-IN w/M12 waterproof connector
SSD LED	1 x SSD LED
Switch	1 x IP65 power button w/Indicator LED

REAR I/O

GND	1 x GND
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POWER REQUIREMENT

Power Input	18V~36V DC-IN w/MIL-STD-461
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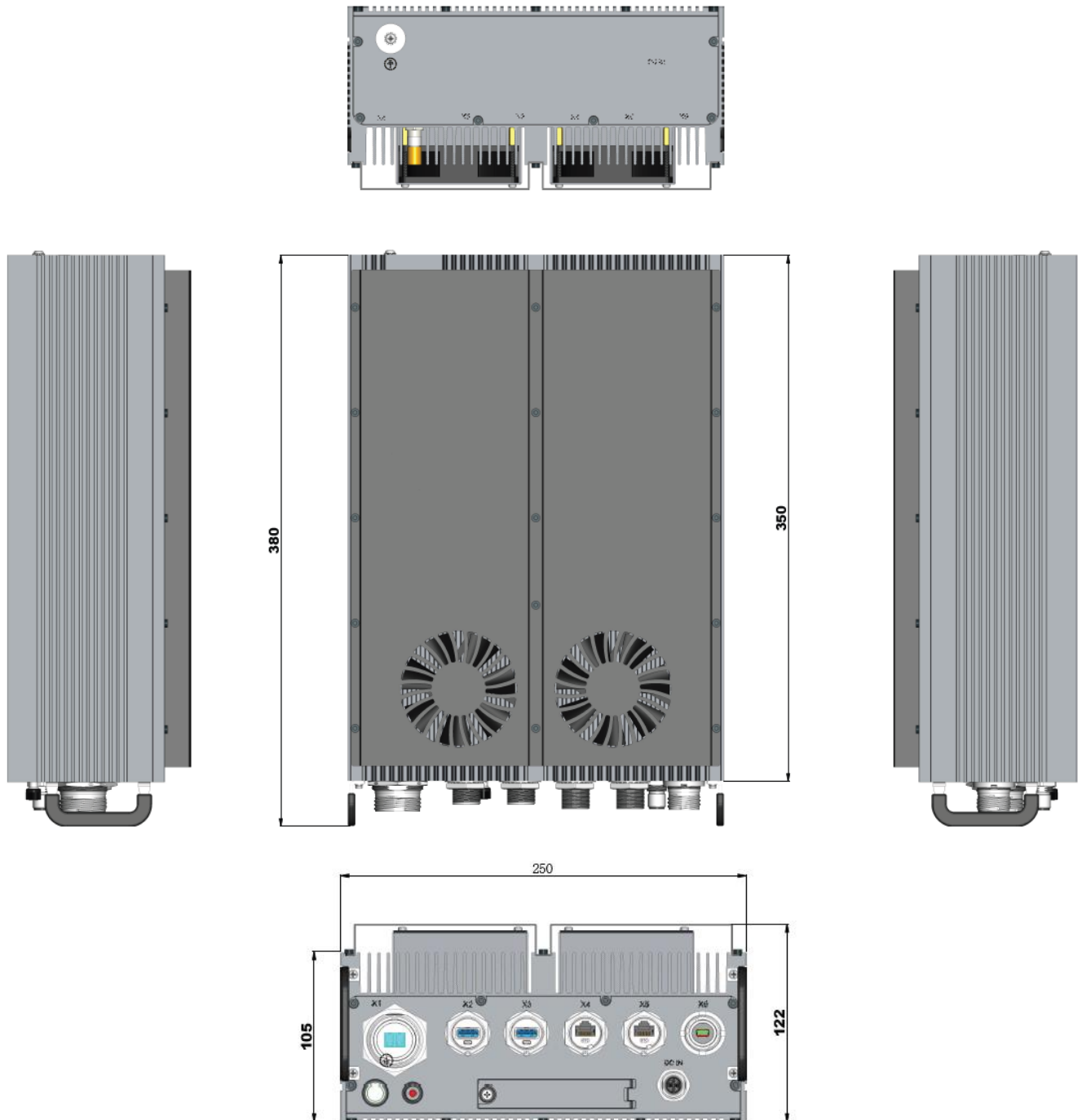
OPERATING SYSTEM

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

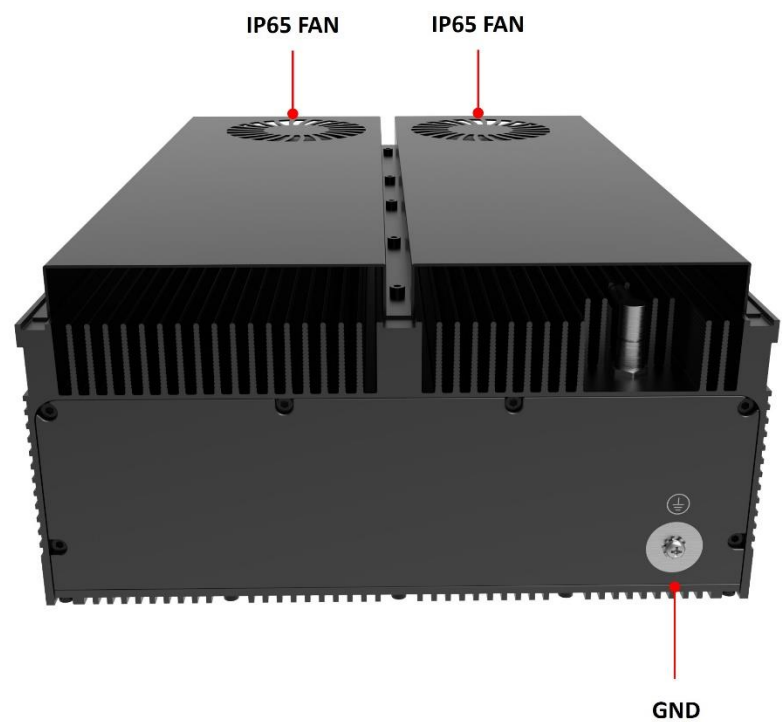
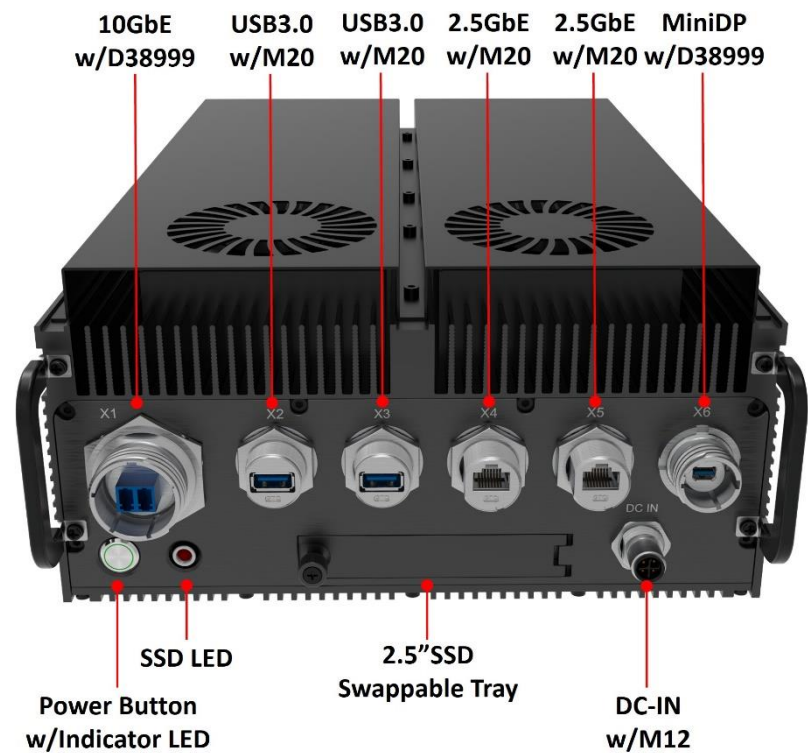
PHYSICAL & ENVIRONMENT

Dimensions	250 x 350 x 100 mm (W x L x H)
Chassis	Aluminum Alloy
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)	MIL-STD-810 Design to meet : Method 514, Vibration/ Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514, Vibration/ Category 20/Operating (Category 20 & 24, Vibration) Method 516, Shock / Procedure V Non-Operating (Mechanical Shock) Method 516, Shock / Procedure I Operating (Mechanical Shock)
MIL-STD-461 (Design To Meet)	CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 80 MHz - 3 GHz

Dimension



Appearance



Ordering Information

IV320-RS-XL4

Full IP65 rugged AI edge computer supporting Intel 14th/13th Gen processors, NVIDIA L4 GPU, and 64GB DDR5 memory. It meets MIL-STD-810/461 standards and features waterproof D38999/M20/M12 connectors for 3xLAN, 2xUSB, and miniDP. DC-IN 18-36V, Extended operating temperature: -20°C to +60°C.

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 representatives.