



IV320RS-X

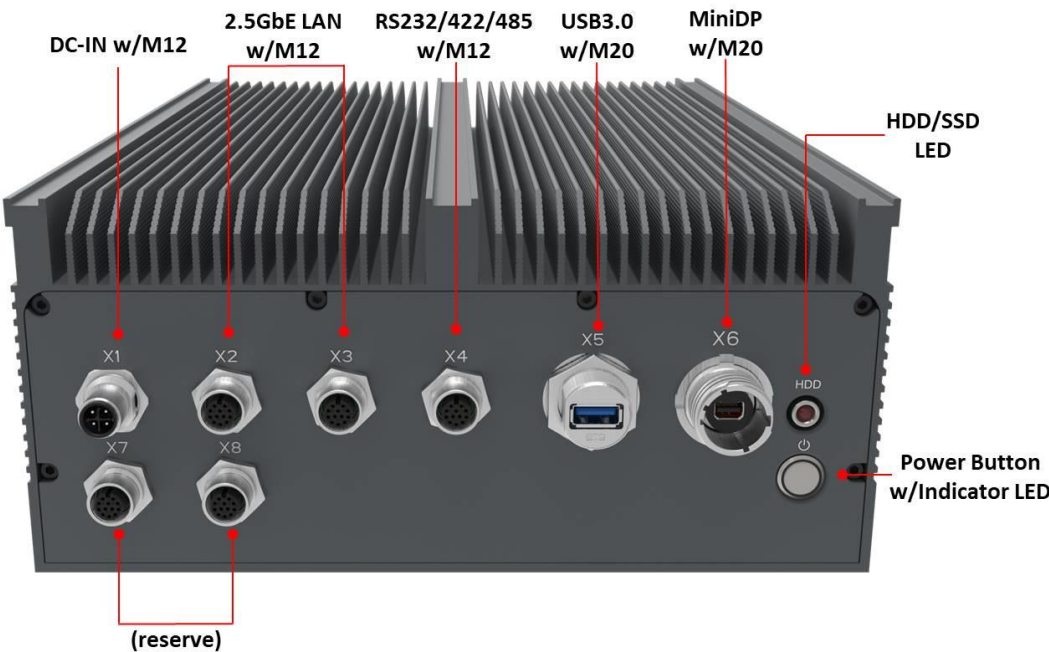
Full IP65 Rugged AI Edge Computer



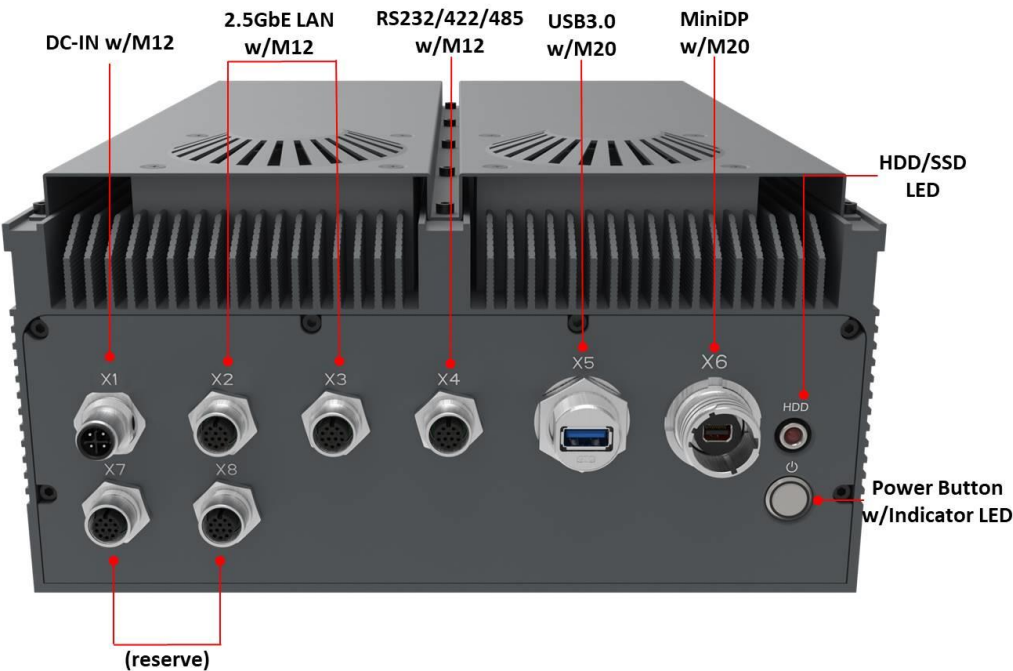
- AI Optimized IP65 Rugged GPU Computer
- Full IP65 sealed enclosure for harsh, wet and dusty environments.
- Support Intel® 14/13th Gen. Raptor Lake-R/S, Core i9/i7
- Up to 64GB DDR5 5200 MHz SO-DIMM, non-ECC and ECC
- Support NVIDIA® RTX 4000 SFF Ada (20GB GDDR6, 6,144 CUDA); RTX A1000 (8GB GDDR6, 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 design to meet

Appearance

WITHOUT GPU



WITH GPU(FAN KIT)



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 IP65 power button

REAR I/O

Others	Antenna(Optional)
GND	1 x GND

POWER

Power input	18V~36V DC-IN
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OPERATING SYSTEM

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

PHYSICAL

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

ENVIRONMENTAL

Green Product	RoHS, WEEE 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 SPECIFICATIONS (OPERATING)(DESIGN TO MEET)

Method 502.5 Procedure 2	Low Temperature	-20°C, 4 hours, ±3°C
Method 501.5 Procedure 2	High Temperature	+55°C, 4 hours, ±3°C
Method 507.5	Humidity	85%-95% RH without condensation, 24 hours/ cycle, conduct 10 cycles.
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.
Method 516.6	Shock	20 Grms, 11ms, 3 axes.

MIL-STD-810 SPECIFICATIONS (NONE-OPERATING)(DESIGN TO MEET)

Method 502.5 Procedure 1	Low Temp. Storage	33°C, 4 hours, change rate: ≤ 20°C/ Hour -15°C, 72hours (By request)
Method 501.5 Procedure 1	High Temp. Storage	+71°C, 4 hours, change rate: ≤ 20°C/ Hour +63°C, 240 hours (By request)
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.
Method 516.6	Shock	20 Grms, 11ms, 3 axes.

Ordering Information

Model	IV320RS-X-R40	IV320RS-X-R40	IV320RS-X-R10
CPU	i9-14900T i9-13900TE		
GPU	N/A	RTX 4000 SFF Ada	RTX A1000
Memory	SO-DIMM DDR5 Up to 64GB		
Display	1 x miniDP w/M20 waterproof connector		
USB	1 x USB3.0 w/M20 waterproof connector		
LAN	2 x 2.5GbE w/M12 waterproof connector		
COM	1 x RS232/422/485 w/M12 waterproof connector		
Power	18~36V DC-IN w/M12 waterproof connector		