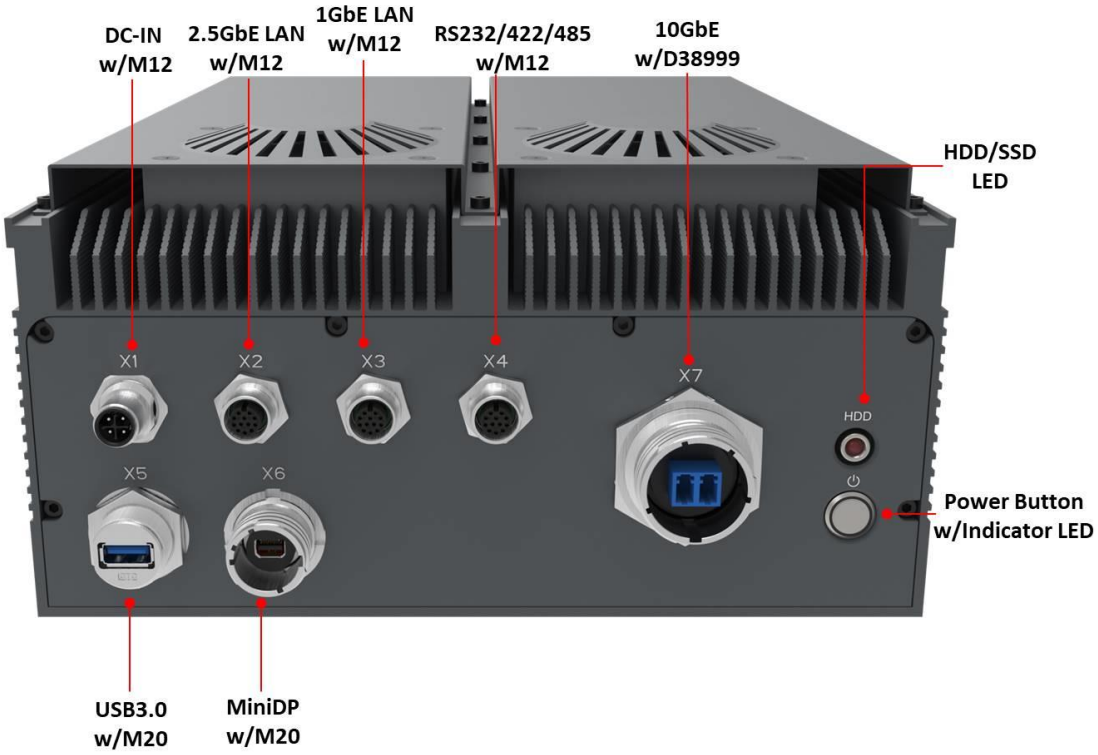
IV320-R5-F10G

Full IP65 AI Edge Computer

MIL-STD 810 | 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 DDR4 3200 MHz SO-DIMM, non-ECC
- Support NVIDIA® RTX 4000 SFF Ada (20GB GDDR6, 6,144 CUDA); RTX (12GB GDDR6, 3,328 CUDA) w/Fan Kit
- Rugged waterproof D38999/M20/M12 connectors
- 3 x LAN(10GbE/2.5GbE/1GbE), 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


DC-IN
w/M12
2.5GbE LAN
w/M12
1GbE LAN
w/M12
RS232/422/485
w/M12
10GbE
w/D38999
HDD/SSD
LED
X1
X2
X3
X4
X7
HDD
X5
X6
Power Button
w/Indicator LED
USB3.0
w/M20
MiniDP
w/M20

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

TPM

TPM	Onboard TPM2.0

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	1 x 10Giga LAN w/D38999 waterproof connector
SSD LED	1 x SSD LED
Switch	1 x IP65 power button

Rear I/O

Others	Antenna(Option)
GND	1 x GND

Power Requirement

Power Input	18V~36V DC-IN
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)	MILS-STD-810 Design to meet : Method 501, Operational Temperature, high / Procedure II: +50°C, two-hour dwell, four cycles Method 501, Storage Temperature, high / Procedure I: +70°C, two-hour dwell, four cycles Method 502, Operational Temperature, low / Procedure II: -20°C, two-hour dwell, four cycles Method 502, Storage Temperature, low / Procedure I: -40°C, two-hour dwell, four cycles 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)

Ordering Information

Model	IV320-RS-F10GR40	IV320-RS-F10GR20
CPU	i9-14900T i9-13900TE	
GPU	RTX 4000 SFF Ada	RTX A2000
10G	1 x 10G w/D38999 waterproof connector	
Memory	SO-DIMM DDR4 Up to 64GB	
Display	1 x miniDP w/M20 waterproof connector	
USB	1 x USB3.0 w/M20 waterproof connector	
LAN	1 x 10GbE w/MD38999 waterproof connector 1 x 2.5GbE w/M12 waterproof connector 1 x 1GbE w/M12 waterproof connector	
COM	1 x RS232/422/485 w/M12 waterproof connector	
Power	18~36V DC-IN w/M12 waterproof connector	