



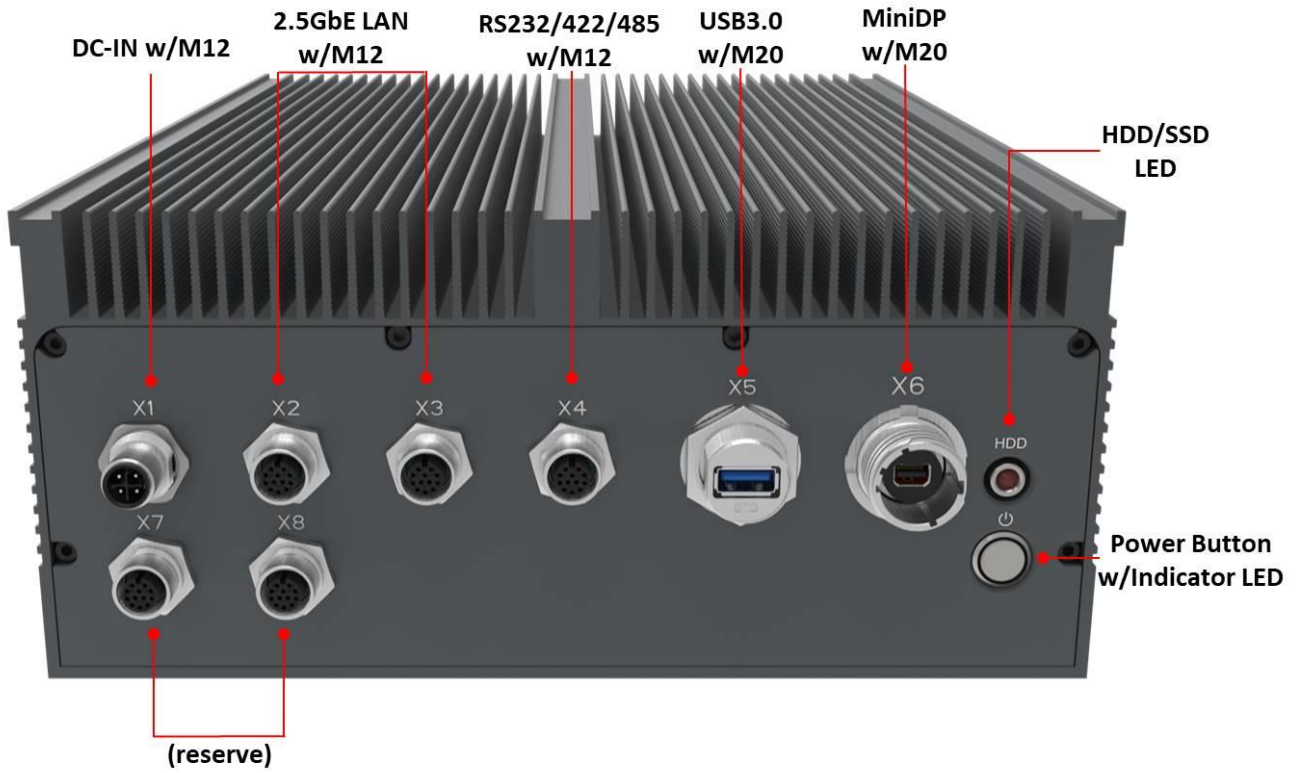
IV320-RS-N

IP66 TACTICAL MARITIME EDGE COMPUTER



- AI Optimized IP66 Rugged 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
- 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 Intel® 13th Raptor Lake Core i9-13700TE, 24C (8P+16E), 24T, 1.0/4.8GHz, 30M Cache, TDP 35W |
| Memory type | Up to 64GB DDR5 5200 MHz SO-DIMM, non-ECC |
| Chipset | Intel® Q670E Chipset |
| 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 | (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 9V~48V 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 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)

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-X | IV320-RS-X10G | IV320-RS-F | IV320-RS-F10G |
|----------------|---------------------------------------|---------------|------------------------------|---------------|
| CPU | i9-14900T i9-13900TE i7-13700TE | | | |
| GPU | N/A | N/A | RTX4000 SFF Ada NVIDIA L4 | |
| Memory | DDR5 Up to 64GB | | | |
| LAN | 2 x 2.5GbE | | | |
| Display | 1 x MiniDP | | | |
| USB | 1 x USB | | | |
| COM | 1 x RS232/422/485 | | | |
| Power | 18~36V | | | |

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.