

NVIDIA® EDGE COMPUTER IRC-150 SERIES



Industrial Rackmount Computer with 10- NVIDIA® Jetson™ Orin™ Nano / NX Modules, Up-to 1570 TOPS, Up-to 80 ARM Cores, Supports: 2- 10GbE (SFP+), 2- GbE (RJ45), 1- GbE (RJ45) for Baseboard Management Control Network, 1-Removable 2.5" SATA drive, 1- DisplayPorts, 1- VGA, 2- USB 3.0 (1- OTG), 1- RS232, 1- RS485, 1- Reset, 1- UID Button, 1- Power Button, 550W Power Supply



1570 TOPS (INT8)
AI Performance



80x ARM
Cores



2x 10GbE
Network Support



10x 1024
CUDA Cores



Layer 3
Switch

SYSTEM SPECIFICATIONS

Processor	10 • NVIDIA® Jetson Orin™ NX 16GB 10 • NVIDIA® Jetson Orin™ Nano 8GB
Processor Generation	Orin™
Processor Cores	8 • Orin™ NX 6 • Orin™ Nano
Memory	16GB LPDDR5 Orin™ NX 8GB LPDDR5 Orin™ Nano
Storage	10 • M.2 SSD up to 2TB per Orin™ module 1 • Removable external 2.5" 3.0 SATA drive bay up to 4TB
Controller Node	8- Core 64-bit Processor at 2.4GHz
GPU	10 • 1024 NVIDIA® CUDA cores, 32 Tensor cores
LAN	2 • 10GbE (SFP+) 1 • GbE 1 • GbE Reserved for BMC Network
System I/O	Front 1 • Power Button 2 • USB 3.0 ports - Bottom port is 3.0 OTG 1 • Removable external 2.5" 3.0 SATA drive bay 1 • Reset Button 1 • UID Button 1 • VGA Port 1 • GbE 1 • GbE Reserved for BMC Network 2 • 10GbE (SFP+)
System Indicator	14 • LED Indicators 1-10: Computing status of each node ES: Switch Status BS: BMC Status S1: SPF+ 10GbE Status S2: SPF+ 10GbE Status
	Rear 1 • RS232 Port 1 • RS485 Port 1 • UID Indicator 6 • Cooling Fans 1 • Power Module

MECHANICAL SPECIFICATIONS

Color	Blue
Construction	Aluminum alloy with heavy steel
Dimensions (W x H x D)	420mm x 44.4mm x 421.3mm (16.54" x 1.75" x 16.59")
Mounting	Rail Mount (optional)

FEATURES

- NVIDIA® Jetson™ Orin™ NX AI Performance 1570 TOPS (INT8) or NVIDIA® Jetson™ Orin™ Nano AI Performance 670 TOPS (INT8)
- 10• 16GB LPDDR5 Memory (Orin™ NX) or 8GB LPDDR5 Memory (Orin™ Nano)
- 10• M.2 SSD up to 2TB per module
- 10• 1024-Core NVIDIA® Ampere Architecture GPU with 32 Tensor Cores
- Up to 10- Channels of H.265 8K@30fps, 20- Channels of H.265 4K@60fps video decoding, and 10- Channels of H.265 4K@60fps video encoding
- 10• Industrial Fanless Heat Sinks
- 2• 10GbE (SFP+) Ports
- 2• GbE Ports
- 1• 8- Core 64-bit Processor Controller Node
- 1• Removable 2.5" SATA 3.0 up to 4TB
- 1• Integrated 3 Layer Switch
- Baseboard Management Control (BMC)

POWER SUPPLY

Power Input	Removable 550W Power Supply
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REGULATORY SPECIFICATIONS

Operating Temperature	5°C ~ 40°C (41°F ~ 104°F)
EMI/EMC	CE standards applied (EN 55022 / EN 55024 / EN 55032) FCC 47 CFR Part 15 (Class A) RoHS
Vibration	Operating: 1G 5-500Hz, 3 Axes according to IEC60068-2-64

ORDERING INFORMATION

Base	IRC-150 1U Industrial Rackmount Computer - NVIDIA Orin Processor, 1024-Core NVIDIA® Ampere Architecture GPU with 32 Tensor Cores, 16GB LPDDR5 Memory, 1- Power button, 3- USB 3.0, 1- VGA Port, 2- 10GbE (SFP+) LAN Ports, 2- GbE LAN Ports, (Front), 1- RS232 Port, 1- RS485 Port, 6- Fans, 10- M.2 M Keys, Integrated 3 Layer Switch, Removeable 550W Power Supply. (Does not include Power Cord)
IRC-150-	

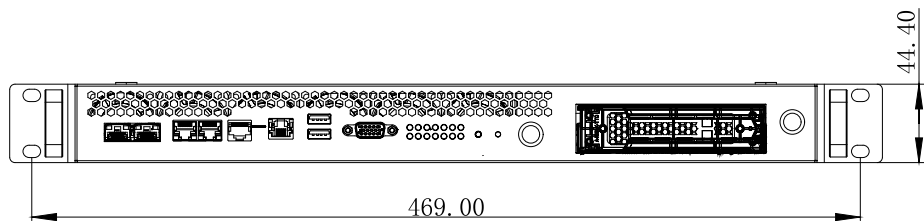
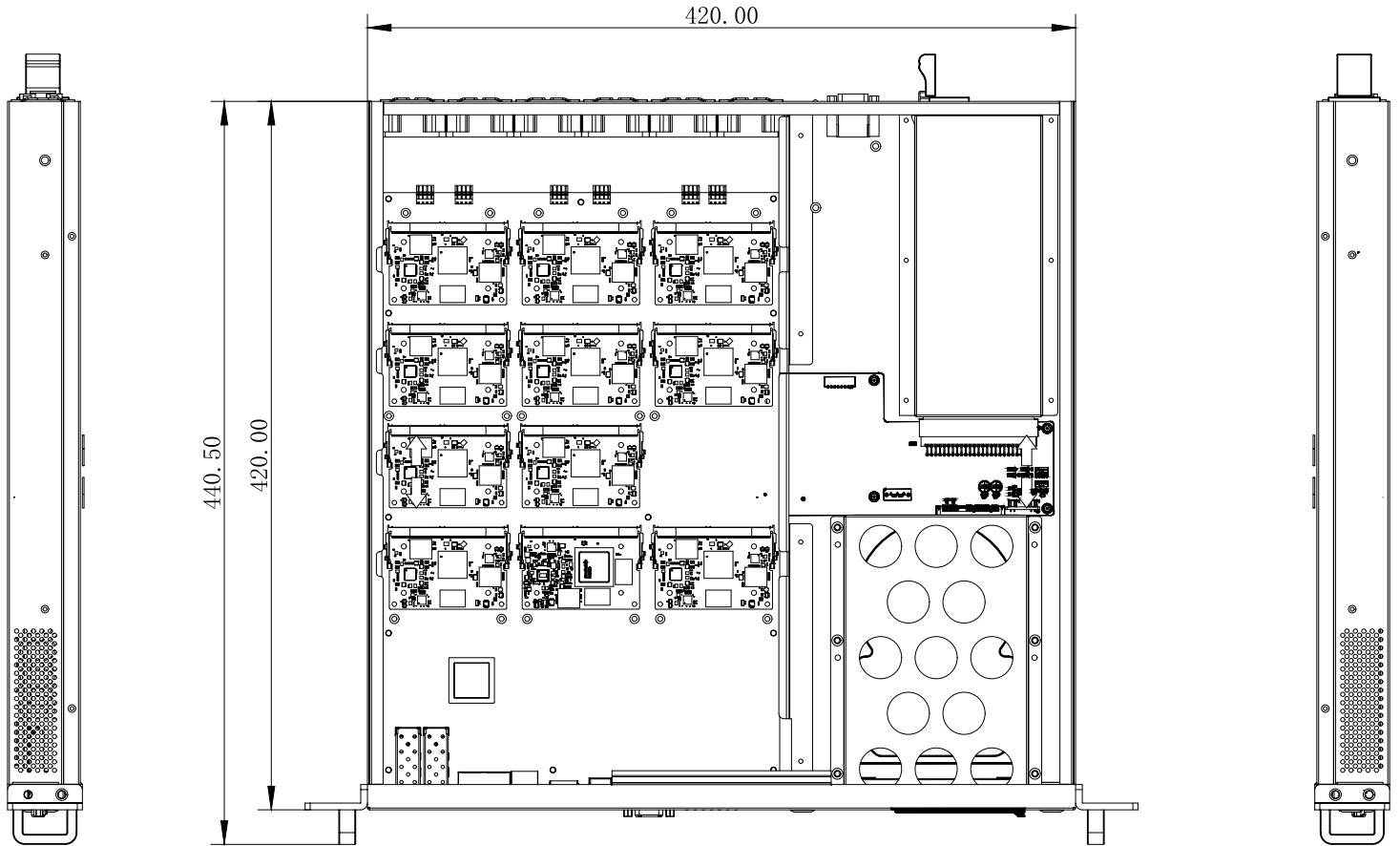
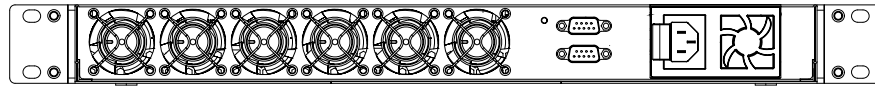
CONFIGURABLE & ACCESSORIES

10 • Processor Modules	NVIDIA® Jetson Orin™ NX 16GB NVIDIA® Jetson Orin™ Nano 8GB
10 • M.2 SSD	256GB, 512GB, 1TB, 2TB
1 • 2.5" SATA SSD	250GB, 500GB, 1TB, 2TB, 4TB
Operating System	Ubuntu 22.04 LTS
Sliding Rail Kit	6610030321
Power Cord	US Power Cord, Black, 6ft EU Power Cord, Black, 6ft UK Power Cord, Black, 6ft AU Power Cord, Black, 6ft

WARRANTY

Manufacturer Warranty	2 Year Warranty
Extended Warranty	TotalCare Protection 3 or 5 Year Extended
Expected Life Cycle	5 Years

DIMENSIONS



Measurements shown in mm. All dimensions are ± 0.5 mm