

# iEPF-1 1000S Series

Expandable Edge AIoT Platform

Preliminary



## KEY FEATURES

- Supported NVIDIA GPU (1~4pcs): RTX 6000 Ada, RTX 5000 Ada, RTX A4500 Ada, RTX 4000 Ada, RTX A4000 SFF Ada, RTX 2000 Ada
- Supported Intel GPU (1~4pcs): Intel Arc Pro B60, Intel Arc Pro B50; Intel GPU (1~3pcs) Arc A770, Arc B580
- Intel® Xeon® 600 Processors with W890 chipset
- 8 x 288-pin ECC RDIMM/RDIMM-3DS DDR5 5200 MHz, up to 2TB
- 6 x PCIe x16 (Gen5), 1 x PCIe x8 (Gen5), 4 x USB 3.2 Gen2, 6 x USB 3.2 Gen1, 3 x USB 2.0, 2 x M.2 Key M, 2 x COM, 8 x SATA3, 1 x VGA
- 2 x Intel 1 Gigabit LAN, 2 x Intel 10 Gigabit LAN option
- TPM 2.0 onboard IC
- Support Intel® vPro, VMD RAID 0/1/5/10
- ATX Power Supply 1600W at 115-240V
- Eight PCIe slots chassis to support up to 4pcs dual width graphic cards or 2pcs triple width graphic cards

## SPECIFICATIONS

### Mechanical

Dimensions (D x W x H)	602.6 (D) x 175.0 (W) x 438.0 (H) mm. 4U tower and rackable, supports rack kit option: ear handle, slide rail, and CMA
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### Processor System

CPU	Intel® Xeon® 600 Processors
Chipset	Intel® W890
Socket	LGA4710
BIOS	AMI SPI 256 Mbit

### Memory

Technology	Quad Channel ECC DDR5 5200 MHz
Capacity	2TB
Socket	8 x 288-pin RDIMM/RDIMM-3DS

### MB Expansion Slot

PCIe	Chassis supports Eight PCIe slots. PCIe7: PCIe Gen5 x16 (Next to CPU) PCIe6: PCIe Gen5 x16 PCIe5: PCIe Gen5 x16 (supported by CPU Expert SKU) PCIe4: PCIe Gen5 x16 PCIe3: PCIe Gen5 x16 (supported by CPU Expert SKU) PCIe2: PCIe Gen5 x8 PCIe1: PCIe Gen5 x16
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### Graphics

VGA	1 x VGA from Silicon Motion SM750 Max resolution up to 1920 x 1200@60Hz
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### Front IO

USB	2 x USB 3.2 Gen1
Function	Power Button and LED, Reset Button, LAN1 LED, LAN2 LED, Storage LED, Line out

### Rear I/O

Ethernet	LAN1: Intel® I210AT with 10/100/1000 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps, supports vPro (Optional LAN3 and LAN4) LAN3: Intel® E610-XAT2 with 10/100/1000/2500/5000/10000 Mbps LAN4: Intel® E610-XAT2 with 10/100/1000/2500/5000/10000 Mbps
USB	4 x USB 3.2 Gen2
Audio	3 (Line-In/Line-Out/Mic-In)
Serial Port	COM3 (RS-232/422/485)
VGA	1

### Internal Connector

USB	2 x USB 3.2 Gen1 (vertical con) 2 x USB 3.2 Gen1 (1 x USB 3.2 header) 3 x USB 2.0 (2 x 2.54 pitch header)
COM	COM4 (RS-232/422/485)
GPIO	4 x GPI, 4 x GPO

### Storage

M.2	1 x M.2 (Key M, 2242/2280/3052/25110) with PCIe Gen5 x4 for SSD 1 x M.2 (Key M, 2242/2280) with PCIe Gen4 x4 for SSD
SATAIII	Default support 1*3,5" internal SATA HDD bay, or up to optional 8-Bay 2.5" SATA hot-swap module in two 5.25" area 8 x SATA3
RAID	Intel® VMD RAID 0/1/5/10 ***supported by identical interface (PCIe or SATA) PCIe interface: M.2 Key M SATA interface: SATA port

### Security

TPM	TPM 2.0 onboard IC
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### Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ..., 255sec

### Power Requirements

MB Input PWR	1 x 24-pin ATX PWR connector 2 x 8-pin 12V PWR connector 1 x 8-pin and 1 x (6+2)-pin 12V PWR connector for PCIe AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready
Power Supply Unit	Rated Output Power 1600W at 115-240V Rated Output Power 1300W at 100-240V

### Graphic Card option

NVIDIA Graphic Card	Description	QTY
RTX 6000 Ada	RTX 6000 Ada 48GB GDDR6, 300W	1~4pcs
RTX 5000 Ada	RTX 5000 Ada 32GB GDDR6, 250W	1~4pcs
RTX 4500 Ada	RTX4500 Ada 24GB GDDR6, 210W	1~4pcs
RTX 4000 Ada	RTX4000 Ada 20GB GDDR6, 130W	1~4pcs
RTX 4000 SFF Ada	RTX4000 SFF Ada 20GB GDDR6, 70W	1~4pcs
RTX 2000 Ada	RTX2000 Ada 16GB GDDR6, 70W	1~4pcs
Intel Graphic Card	Description	QTY
Arc A770	Arc A770, 16GB GDDR6, 225W	1~3pcs
Arc B580	Arc B580, 12GB GDDR6, 190W	1~3pcs
Arc Pro B60	Arc Pro B60, 24GB GDDR6, 200W	1~4pcs
Arc Pro B50	Arc Pro B50, 16GB GDDR6, 70W	1~4pcs