

iEPF-10000S Series

Expandable Edge AIoT Platform

ASRock
— Industrial —

Preliminary



KEY FEATURES

- Support NVIDIA GPU (1~2pcs): RTX PRO 6000 Blackwell Workstation Edition (Build-To-Order), RTX PRO 6000 Blackwell Max-Q Workstation Edition, RTX PRO 5000 72GB Blackwell, RTX PRO 5000 Blackwell, RTX PRO 4500 Blackwell Workstation Edition, RTX PRO 4000 Blackwell, RTX PRO 4000 Blackwell SFF Edition, or RTX PRO 2000 Blackwell Edition
- Support Intel GPU (1~2pcs): Intel Arc™ Pro B70, Intel Arc™ Pro B65, Intel Arc™ Pro B60, Intel Arc™ Pro B50, Intel Arc™ A770, or Intel Arc™ B580
- Support AMD GPU (1~2pcs): AMD Radeon™ AI PRO R9700
- Intel® Core™ Processor Series 2 (Bartlett Lake-S) or Intel® 14th/13th Core™ Processor, up to 125W
- 4 x 288-pin Long-DIMM DDR5, up to 192GB
- ATX Power Supply 1000W or 1600W option
- Seven PCIe slots chassis to support up to 2pcs dual width graphic cards or 2pcs triple width graphic cards.

SPECIFICATIONS

Mechanical

Dimensions (D x W x H)	597mm (D) x 206mm (W) x 455.1mm (H)
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Processor System

CPU	Intel® Core™ Processor Series 2 (Bartlett Lake-S) or Intel® 14th/13th Core™ Processor, up to 125W
Chipset	Intel® Q670 or Intel® W680 (Option)
Socket	LGA1700
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR5 4400/5600 MHz* *Actual memory frequency depends on the CPU types and DRAM modules, for more information refer to https://www.asrockind.com/en-gb/index.php?route=newsblog/faq&faq_id=90 technical FAQ *For DDR5 5600 support refer to memory support list ECC feature only supported by W680
Capacity	192GB (48GB per DIMM)
Socket	4 x 288-pin Long-DIMM

CPU Graphics

Controller	Intel® UHD Graphics
HDMI	HDMI 2.0b Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.4a, DP++ Max resolution up to 4096x2160@60Hz
VGA	Max resolution up to 1920 x 1200@60Hz
MultiDisplay	Triple Display

Audio

Interface	Realtek ALC897, High Definition Audio. Line-in, Line-out, Mic-in (Rear Side)
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MB Expansion Slot

PCIe	2 x PCIe Gen5 Slots (PCIe1/PCIe4:single at x16(PCIe1); dual at x8 (PCIe1) / x8 (PCIe4)) 2 x PCIe x4 (Gen4), 3 x PCIe x1 (Gen3)
M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVoi fr Wireless 1 x M.2 (Key B, 3042/3052) with PCIe x1, USB3.2 Gen1, USB 2.0 and SIM for 4G/5G 1 x SIM socket connected to M.2 Key B

Ethernet

Controller/ Speed	LAN1: Intel® I226V with 10/100/1000/2500 Mbps, supports PoE (IEEE 802.3at). LAN2: Intel® I226LM with 10/100/1000/2500 Mbps, supports vPro LAN3: Intel® I226V with 10/100/1000/2500 Mbps
Connector	3 x RJ-45

MB Rear I/O

HDMI	1 x HDMI 2.0b
DisplayPort	1 x DP 1.4a++
VGA	1
Ethernet	3 x 2.5 Gigabit LAN
USB	5 x USB 3.2 Gen2 1 x USB 3.2 Gen2x2 (Type-C, 5V/3A)
Audio	3 (Mic-in, Line-in, Line-out)
COM	COM1, COM2 (RS-232/422/485)

MB Internal Connector

USB	2 x USB 3.2 Gen1 (Chassis front side), 2 x USB 2.0 Type-A internal vertical connector), 2 x USB 2.0 (1 x 2.54 pitch header)
COM	COM3, COM4, COM5, COM6 (RS-232)
Parallel	1
GPIO	8 x GPI, 8 x GPO (shaerd with LPT header)
PS2	1 x PS2 header
Thunderbolt header	1

Storage

M.2	1 x M.2 2280 (Key M) PCIe Gen4 x4 SSD or 1 x M.2 2280 (Key M) PCIe Gen4 x4 SD and 1 x M.2 2280 (Key M) PCIe Gen3 x4 SSD (Option)
SATAIII	2.5"/3.5" HDD bays x 5
RAID	Intel® VMD RAID 0/1/5/10 ***supported by identical interface (PCIe or SATA) PCIe interface: M.2 Key B + M.2 Key M x1 or x2 (Option) SATA interface: SATA port

Security

TPM	TPM 2.0 onboard IC
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Power Requirements

Power Supply Unit	1000W: Rated Output Power Input Voltage 100-240V 1600W: Rated Output Power 1600W at 115-240V, Rated Output Power 1300W at 100-240V
Power On	AT/ATX Support - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Graphic Card option

NVIDIA Graphic Card	Description	QTY
RTX PRO 6000 Blackwell Workstation Edition	96GB GDDR7 with ECC, 600W	1~2pcs
RTX PRO 6000 Blackwell Max-Q Workstation Edition	96GB GDDR7 with ECC, 300W	1~2pcs
RTX PRO 5000 72GB Blackwell	72GB GDDR7 with ECC, 300W	1~2pcs
RTX PRO 5000 Blackwell	48GB GDDR7 with ECC, 300W	1~2pcs
RTX PRO 4500 Blackwell Workstation Edition	32GB GDDR7 with ECC, 200W	1~2pcs
RTX PRO 4000 Blackwell	24GB GDDR7 with ECC, 140W	1~2pcs
RTX PRO 4000 Blackwell SFF Edition	24GB GDDR7 with ECC, 70W	1~2pcs
RTX PRO 2000 Blackwell	16GB GDDR7 with ECC, 70W	1~2pcs
INTEL Graphic Card	Description	QTY
Intel Arc™ Pro B70 Creator 32GB	32GB GDDR6, 275W	1~2pcs
Intel Arc™ Pro B65 Creator 32GB	32GB GDDR6, 200W	1~2pcs
Intel Arc™ Pro B60 Creator 24GB	24GB GDDR6, 200W	1~2pcs
Intel Arc™ A770 Challenger SE 16GB OC	16GB OC, 16GB GDDR6, 225W	1~2pcs
Intel Arc™ B580 Challenger 12GB OC	12GB OC, 12GB GDDR6, 190W	1~2pcs
AMD Graphic Card	Description	QTY
AMD Radeon™ AI PRO R9700	32GB GDDR6, 300W	1~2pcs