

iEPF-9000S-EX4

Expandable Edge AIoT Platform

ASRock
— Industrial —



KEY FEATURES

- Intel® 10th Gen Xeon® W or Core™ Processors with W480E Chipset
- 4 x 260-pin DDR4 SO-DIMM up to 128GB (32GB per DIMM)
- 1 x PCIe x16 (PCIe Gen3) or 2 x PCIe x8 (PCIe Gen3), 2 x PCIe x4 (PCIe Gen3)
- 1 x M.2 Key M, 1 x M.2 Key B, 1 x M.2 Key E, 2 x Mini PCIe
- 4 x USB 3.2 Gen2x1, 2 x USB 2.0, 6 x COM, 4 x SATA3, 8 x DI, 8 x DO
- 5 x Intel Gigabit LAN (2 support PoE)
- Supports Triple Display, 2 x Displayport, 1 x VGA
- Powerful Edge AI acceleration enabled by the most flexible mechanical, thermal, and power design, with support for 275mm x 121mm x 42mm (L x H x D) max. and up to 255W graphic card

SPECIFICATIONS

Processor System

CPU	Intel® 10th Gen Xeon® W or Core™ Processors
Chipset	Intel® W480E
Socket	LGA 1200

Memory

Technology	Dual Channel DDR4 2400 MHz (ECC memory supported by W480E w/ Xeon W/Core i3 CPU)
Capacity	128 GB (32 GB per DIMM)
Socket	4 x 260-pin SO-DIMM

Graphics

Controller	Intel® UHD Graphics
DisplayPort	DisplayPort 1.4, DP++ Max resolution up to 4096x2160@60Hz
VGA	Max resolution up to 1920x1200@60Hz
MultiDisplay	Triple Display

Expansion Slot

PCIe	1 x PCIe Gen3 x16 (single x16 or dual x8), PCIe x16 slot with default power cable can support up to 180W graphic card (275mm x 111.15 mm x 42mm (L x H x D), if remove the card holder, it can be limited on 275mm x 121mm x 42mm, dual slot width max.) Graphic card can be up to 255W with optional VGA module 1 x PCIe Gen3 x8 (shared with dual x8) 2 x PCIe Gen3 x4 (1 shared with M.2 Key M)
Mini-PCIe	2 x Full/Half size with PCIe Gen3 x1 and USB 2.0
RF& Antenna	8 x SMA connector hole reserved
M.2	1 x M.2 (Key E, 2230) with CNVI/PCIe Gen3 x1 and USB 2.0 for Wi-Fi/BT module 1 x M.2 (Key B, 2280/3042/3052) with PCIe Gen3 x1 / USB3.2 Gen1x1 for 4G / 5G
SIM Socket	2 x Nano SIM Card slot (1 connected to Mini PCIe, 1 connected to M.2 Key B)

Audio

Interface	Realtek ALC897, High Definition Audio.
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Ethernet

Controller/ Speed	4 x I210IT (2 support PoE, PoE output max.15.4W/port, each port supports IEEE 802.3AF PoE) 1 x I219LM (vPro support)
Connector	5 x RJ45

Storage

M.2	1 x M.2 (Key M, 2280) with PCIe Gen3 x4 (shared with PCIe x4 slot) or SATA3 for SSD
SATA	4 x SATA3 (6Gb/s), support RAID 0/1/5/10 4 x 2.5" HDD/SSD Tray
CFast (Option)	1 x Type II socket (Shared with SATA3)

Rear I/O

DisplayPort	2
VGA	1
Ethernet	5 x 1 Gigabit LAN
USB	4 x USB 3.2 Gen2x1, 2 x USB2.0 (1x USB2.0 internal connector w/ lock function)
Audio	1 x Mic-in, 1 x Line-out
COM	4 x RS232/422/485 2 x RS232
DIO	8DI/8DOs

Watchdog Timer

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

Power Requirements

Input PWR	9V-36V VDC with Ignition control and remote power on/off switch. 80V Surge Protection, OVP, UVP, OCP and reverse protection Ignition Power Input w/ 13-mode condition
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Environment

Operating Temperature	35W CPU: -40°C-75°C (-40°F-167°F) 65W CPU: -40°C-55°C (-40°F-131°F) 80W CPU: -40°C-45°C (-40°F-113°F) (with FAN inside, without Add-on Card) (w/ air flow 0.5-0.8 m/s)
Storage Temperature	-40°C-85°C (-40°F-185°F)
Humidity	~95% @ 40°C (non-condensing)
Shock	Operating: 50 G, half sine 11ms duration with SSD
Vibration	Operating: 5 Grms, 5-500 Hz, 3 axes with SSD
ESD	Contact +/-4kV, Air +/-8kV
EMC	EN61000-6-4/-2, CE & FCC Class A
Safety	LVD

Mechanical

Construction	Aluminum heatsink + Metal chassis
Mounting	Desk Mount
Dimensions	202mm (W) x 290mm (D) x 209.3mm (H) (7.95" x 11.42" x 8.24")
Net Weight	10kg

Others

OS Support	Windows 10 & Linux
TPM	TPM 2.0

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