



iEPF-9040VS-EW2, iEPF-9042VS-EW2

Expandable Edge AIoT Platform

Storage	iEPF-9040VS-EW2	iEPF-9042VS-EW2
M.2 (iEPF-9040VS-EW2)	1 x M.2 (Key M, 2242/2260/2280/22110/25110) with Gen4 x4 for NVMe SSD	
SATA	2 x SATA3 (6Gb/s), R680E: support RAID 0/1	
CFlash (Option)	1 x Type II socket (Shared with SATA3)	

Expansion Slot

PCIe	2 x PCIe Gen4 x8	1 x PCIe Gen4 x8
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Front I/O

DisplayPort	1	
HDMI	2	
Ethernet	2 x Intel 1G LAN	
USB	4 x USB 3.2 Gen2x1, 2 x Internal USB 3.2 Gen2x1 (Optional)	4 x USB 3.2 Gen2x1
Audio	1 x Line-in, 1 x Line-out	
COM	2 x RS232/422/485	
DIO	4DIs/4DOs	

Watchdog Timer

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

Power Requirements

Input PWR	9V~36V VDC
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Environment

Operating Temperature	45W CPU: -40°C ~ 55°C (-40°F ~ 131°F) 65W CPU: -40°C ~ 50°C (-40°F ~ 122°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Humidity	~95% @ 40°C (non-condensing)
Shock	MIL-STD-810H, Method 516.8, Procedure I
Vibration	MIL-STD-810H, Method 514.8
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	187mm (W) x 231.1mm (D) x 200mm (H) (7.36" x 9.10" x 7.87")
Net Weight	7.5kg

Others

OS Support	Windows 11 & Windows 10 & Linux
TPM	TPM 2.0
Real-Time Enablement	TSN, TCC support under YOCTO

KEY FEATURES

iEPF-9040VS-EW2:

- Intel® Core™ Processors (Series 2) with R680E Chipset

iEPF-9042VS-EW2:

- Intel® Core™ Processors (Series 2) with H610 Chipset

iEPF-9040VS-EW2:

- 2 x 262-pin DDR5 SO-DIMM up to 96GB (48GB per DIMM)
- 1 x M.2 Key M
- 4 x USB 3.2 Gen2x1, 2 x Internal USB 3.2 Gen2x1 (Optional)
- 2 x Intel 1G LAN (LAN1 supports vPro)
- 2 x PCIe x8 (PCIe Gen4)

iEPF-9042VS-EW2:

- 2 x 262-pin DDR5 SO-DIMM up to 96GB (48GB per DIMM)
- 4 x USB 3.2 Gen2x1
- 2 x Intel 1G LAN
- 1 x PCIe x8 (PCIe Gen4)

iEPF-9040VS-EW2, iEPF-9042VS-EW2:

- 2 x COM, 2 x SATA3, 4 x DI, 4 x DO
- 1 x Displayport, 2 x HDMI 2.0b
- With support for 192 mm (with optional system fans) x 148 mm x 60 mm; 221 mm (without optional system fans) x 148 mm x 60 mm (D x H x W) max. and up to 75W expansion card or active graphic card
- Optional Kit: PoE function card, 10BASE-T1S function card, OOB function card, System fans (If prefer to install above 75W expansion card)

SPECIFICATIONS

Processor System	iEPF-9040VS-EW2	iEPF-9042VS-EW2
CPU	Intel® Core™ Processors (Series 2)	
Chipset	Intel® R680E	Intel® H610
Socket	LGA 1700	

Memory

Technology	Dual Channel DDR5 5600MHz (ECC memory supported by R680E + Selected CPU)
Capacity	96 GB (48 GB per DIMM)
Socket	2 x 262-pin SO-DIMM

Graphics

Controller	Intel® UHD Graphics
DisplayPort	DisplayPort 1.4a, DP++ Max resolution up to 4096x2160@60Hz
HDMI	HDMI 2.0b Max resolution up to 4096x2160@60Hz

Audio

Interface	Realtek ALC897, High Definition Audio.
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Ethernet

Controller/ Speed	1 x Intel® i219LM (vPro Support) 1 x Intel® i219V 1 x Intel® i210IT
Connector	2 x RJ45