

Mayflower®-II-R680E - GPU Server

19" 4U GPU Server with NVIDIA® RTX PRO™ 6000 Blackwell Max-Q Workstation Edition GPU and Intel® Core™ i CPUs 12th/13th/14th Generation

Features

- **High-Performance with Intel® Core™ i CPUs 12th/13th/14th Generation**
- **High-End GPU: NVIDIA® RTX PRO™ 6000 Blackwell Max-Q Workstation Edition**
- **Up to 5x slots for expansion cards**
- **Robust full industrial components for 24/7 operation**
- **Hold-downs clamps and washable air filters**



Configuration example

Further configurations on request!

Mainboard:

Industrial Mainboard (ATX)
24/7 operation, long-term available

Processor:

Intel® Core™ i 12th/13th/14th Generation
Intel® Core™ (Bartlett Lake-S Hybrid)
Chipset: Intel® R680E

Memory:

4x DDR5 UDIMM, max. 192 GB

Graphic:

Intel® UHD 730/770 (integrated in CPU)

GPU:

1x NVIDIA® RTX PRO™ 6000 Blackwell Max-Q Workstation Edition
PCIe x16, 96 GB GDDR7 with ECC
4x DisplayPort 2.1b
24064 CUDA Cores

AI Performance:

Single-Precision power: 110 TFLOPs
RT Core-Performance: 333 TFLOPs
AI: 3511 TOPS

Drive Bays:

Internal
2x M.2 (M-key, type: 2242/2260/2280)
1x 2.5"
External
2x 5.25"

Operating System:

Microsoft® Windows® 10/11, Linux®

Features:

Watchdog Timer
Intel® AMT, TPM 2.0

Power Supply:

90 ~ 264 VAC, 1200 Watt, 80 Plus

Expansions:

1x M.2 (E-key, type: 2230)
1x M.2 (A-key, type: 2242)
2x PCIe x16 (Gen 4)
(1x used by NVIDIA® GPU)
3x PCIe x4 (Gen 4)
(1x covered by NVIDIA® GPU)
1x PCIe x4 (Gen 3)
1x PCI

Mechanical:

Chassis
19 inch 4U rackmount chassis
Dimensions (W x H x D)
430 x 176 x 468 mm
Cooling
Active, 2x 120 mm fans
2x 80 mm fans

I/O:

Back
3x 2.5 GBit LAN (RJ45)
1x 1 GBit LAN (RJ45)
4x USB 3.2 (Gen 2)
4x USB 3.2 (Gen 1)
2x DisplayPort (DP++)
1x HDMI 2.0a
1x VGA
2x Audio (Line-Out, Mic)
Front
2x USB 3.2 (Gen 1)
1x USB-C 3.2 (Gen 1)
Internal
2x USB 2.0 type A
2x GPIO Header (8 Bit)

Environment:

Operating Temperature
0° ~ 50° C*
Storage Temperature
-20° ~ 80° C
Relative Humidity (operation)
10 ~ 90 % (non condensing)

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Additional illustrations



Rear view



Front view (open)

InoNet Competences and Services



Consulting



Development



Testing



Customization



Manufacturing



Certifications

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