

TYPE APPROVAL CERTIFICATE

Polish Register of Shipping certifies that the undernoted product type

PERSONAL COMPUTER

HP Z4 G5 Workstation (used in conjunction with Mariner Kit MS3110 or MS3120)

issued to

Mariner Systems (UK) Ltd
Oaklands Park
Wokingham
Berkshire RG41 2FD
United Kingdom

is approved as complying with the requirements of the

PRS Rules and is suitable for use on board of ships classified by PRS or in appliances with PRS certificates.

Certificate No.

TE/1125/883236/24

Issued at

Gdańsk, 2024-08-16.

PRS 1936

C/020/57

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Continued overleaf

Expiry date 2029-08-15

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Polski Rejestr Statków S.A.

al. Gen. Józefa Hallera 126

80-416 Gdańsk, Poland

<u>Product description:</u> Marine personal computer for navigation, control, loading and general purpose applications. Manufacturer: HEWLETT PACKARD.

Technical data:

Processor: All processors up to and including Intel Xeon with 4.0GHz (4.8GHz turbo), 37.5MB cache, 20 cores.

Memory: Up to 512 GB DDR5-4800 DIMM

Hard Disk: 1TB SATA 3.5" Ent HDD (7200 rpm), 2TB SATA 3.5" Ent HDD (7200 rpm), 4TB SATA 3.5" Ent HDD (7200 rpm), 8TB SATA 3.5" Ent HDD (7200 rpm), 512GB Z Turbo TLC / Opal2 TLC SSD, 1TB Z Turbo TLC / Opal2 TLC SSD, 2TB Z Turbo TLC / Opal2 TLC SSD, 4TB Z Turbo TLC / Opal2 TLC SSD, Z Turbo Drive Dual Pro PCIe-4x4 NVMe Carrier, Z Turbo Drive Quad Pro PCIe-4x16 NVMe Carrier, Z Turbo Drive Quad Pro 512GB/1TB TLC SSD, Z Turbo Drive Quad Pro 512GB/1TB TLC SSD.

Optical Drive: HP 9.5mm Slim DVD-ROM Drive, HP 9.5mm Slim SuperMulti DVD Writer.

Graphics Card: NVIDIA T400 4GB, NVIDIA T1000 4GB, NVIDIA T1000/T1000E 8GB, AMD Radeon RX 6400 4GB, AMD Radeon Pro W6600 8GB.

Keyboard / Mouse: HP 320K Wired Keyboard / HP Wired 320M Mouse, HP 125 Wired Mouse.

IP degree: IP20.

Power supply: 100 up to 240 V 50/60 Hz (through filter RF 1010-MST-A).

Ambient temperature: -25 up to +70 °C.

Mounting: Must be installed in conjunction with Mariner Kit MS3110 or MS3120.

Basis of approval

- 1. The technical documentation approved by PRS on 2024-08-12.
- 2. The inspection of the production process and quality control system carried out on 2021-05-19.
- 3. The Quality Management System (ISO9001) Certificate No. UK012770 issued by BV.
- 4. Reports from environmental tests carried out acc. to PRS Publication 11/P (Ed. July 2023).
- 5. PRS Survey Report No. TM/PU/06/24 issued on 2024-08-12.
- 6. PRS Survey Report No. TM/SGi/01/21 issued on 2021-05-25.

Additional conditions and remarks:

- 1. When the hardware is used in applications classed by PRS, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case.
- 2. Each product is to be marked with: manufacturer name/logo, type, serial No., basic technical data.
- 3. The condition for maintain validity of this Certificate is to maintain validity of a.m. ISO9001 Certificate.

Notes

- 1 The approval is valid only when the product is used in accordance with the manufacturer's conditions.
- Changes of product design and materials which influence product quality are to be agreed with PRS.
- 3 Type Approval Certificate will be cancelled in the case of dissatisfactory service results, modifications made in the product structure or materials without PRS' consent, not advising PRS of the manufacturer's name change.

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