



Type Approval Certificate

[Marine Computer]

Initial Approval 4 March 2026
Manufacturer Mariner Systems (UK) Ltd.
 Oaklands Park, Wokingham, Berkshire, RG41 2FD, United Kingdom

Product Description Marine Computer (Model : HP EliteDesk 8 G1i Desktop PC)

“ The HP EliteDesk 8 G1i Desktop Tower (TWR) PC must be used in conjunction with one of the Mariner Kit MS2710 or MS2720 ”

“ The HP EliteDesk 8 G1i Desktop Small Form Factor (SFF) PC must be used in conjunction with one of the Mariner Kit MS2730 or MS2740 ”

- MS2710 : Desktop configuration
- MS2720 : Tower configuration
- MS2730 : Horizontal mount
- MS2740 : Vertical mount

Approval Condition “ See Appendix 1 ”

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.
 Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 3 March 2031
 Issued at Busan, Korea on 4 March 2026



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No(ME26009594697) and certificate No.(LDN04977-AC125).



KOREAN REGISTER

*General Manager of
 Marine & Ocean Equipment Team*

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 4 March 2026

A. Product Description

1. Product Specification

- 1) Processor
 - All processors up to and including Intel Core Ultra 7-265 with 3.5GHz (5.3GHz max), 30MB cache, 20 cores
- 2) Memory
 - Up to 128 GB DDR5-5600 UDIMM
- 3) Hard Disk
 - 2TB PCIe-4x4 2280 NVMe TLC SSD
 - 1TB PCIe-4x4 2280 NVMe TLC SSD
 - 512GB PCIe-4x4 2280 NVMe TLC SSD
 - 1TB 2280 PCIe NVMe Value SSD
 - 512GB 2280 PCIe NVMe Value SSD
 - 256GB 2280 PCIe NVMe Value SSD
 - 2TB SATA-6G 3.5" (7200 rpm)
 - 1TB SATA-6G 3.5" (7200 rpm)
- 4) Optical Drive
 - HP 9.5mm DVD-Writer Ultra Slim Tray
- 5) Graphics Card
 - Intel UHD Graphics (integrated)
 - NVIDIA RTX A400 4GB 4mDP
 - NVIDIA RTX A1000 8GB 4mDP
 - AMD Radeon RX 6300 2GB DP+HDMI
- 6) Network Interface Card
 - Intel Ethernet I219LM GbE LOM Network Connection (integrated)
 - Intel I226-T1 2.5GbE NIC (PCIe x1)
 - Intel BE200 Wi-Fi 7 +Bluetooth 5.4 vPro Wireless WW WLAN
 - Realtek 8852CE Wi-Fi 6E +Bluetooth 5.3 WW WLAN
 - Intel I225-T1 GbE NIC (PCIe x1)
- 7) Keyboard
 - HP 320K G2 Wired USB Keyboard
 - HP USB 320K Keyboard
 - HP USB Business Slim Keyboard
- 8) Mouse
 - HP USB Black 125 Wired Mouse
 - HP 128 Laser Wired Mouse
 - HP Wired 320M Mouse
 - Kensington Orbit Trackball with Scroll Ring
- 9) Miscellaneous
 - HP Serial Port Rear Wall
 - HP Serial Port v3 Flex IO
 - HP Serial Port 2nd SFF v3 Flex IO
 - HP VGA v3 Flex IO
 - HP DisplayPort to HDMI True 4K Adapter
 - HP PCIe x1 Parallel Port Card
- 10) Operating System
 - Windows 11 Professional
 - Windows 11 Home
 - FreeDOS

2. Approved Drawings and Documents

- 1) Drawings for mariner kit
 - MS2710 Assembly, Dwg. No. MS2710_A, Issue No. 2, dated 2026-01-23
 - MS2720 Assembly, Dwg. No. MS2720_A, Issue No. 2, dated 2026-01-23
 - MS2730 Assembly, Dwg. No. MS2730_A, Issue No. 2, dated 2026-01-23
 - MS2740 Assembly, Dwg. No. MS2740_A, Issue No. 2, dated 2026-01-23

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- 2) Drawings for RFI filter
 - RF-1004-MST-C, Dwg No. DS 103-MST, Issue No.2, dated 2020-01-30

3. Test Reports, etc.

- 1) Test Reports
 - Test Report No. TL25113 issued by MS Testing, dated 2026-01-05
 - Test Report No. TL25114 issued by MS Testing, dated 2026-01-05
- 2) Etc.
 - c09121527 Worldwide, Ver.23, dated 2025-12-15

B. Approval Condition

1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and the approved documentation.
- 2) Degree of protection is to be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
- 3) The manufacturer is to inform this Society of all kinds of revisions of the equipment including the major changes of software. If the changes are recognized to affect the functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.
- 4) When this product is installed in the vicinity of a standard or a steering magnetic compass, it is to have the minimum safe distance stated in Product Description or more at which it may be mounted from such compasses.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.
- 2) System Drawing Approval for individual vessel is not required.

3. Marking

- 1) The product or packing is to be marked with manufacturer name and type designation on a suitable position.

4. Others

- 1) Test condition (IACS UR E10 Rev.10 basis)

| Test | Condition | Remark |
|-------------|--|--------|
| EMC | All locations including the bridge and deck zone | - |
| Temperature | -25 ~ +70°C | - |
| Vibration | Acceleration $\pm 0.7g$ | - |

- 2) Compass Safety Distance

| Type | 1 degree deflection | 0.3 degree deflection |
|-------------------------|---------------------|-----------------------|
| Small Form Factor (SFF) | 500mm | 700mm |
| Tower (TWR) | 500mm | 700mm |

< End of Certificate >