



Certificate number: 83514/A0 BV

File number: MPA260016

Product code: 4482H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

MARINER SYSTEMS (UK) Ltd

Wokingham - UNITED KINGDOM

for the type of product

MARITIME PERSONAL COMPUTERS

HP EliteDesk 8 G1i Small Form Factor (SFF) & Tower (TWR) PC

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

IEC 60945

EC Code: 31B/41B

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 29 Apr 2031

For Bureau Veritas Marine & Offshore,

At BV LONDON, on 29 Apr 2026,

Spencer Yule

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Product: HP EliteDesk 8 G1i Small Form Factor (SFF) & Tower (TWR) PC

Types	Description
Processor	All processors up to and including Intel Core Ultra7-265 with 3.5GHz (5.3GHz max) frequency, 30MB cache, 20 cores
Memory	up to 128 GB DDR5-5600 UDIMM
Hardisk	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)
Optical Drive	HP 9.5mm DVD-Writer Ultra Slim Tray
Graphics Card	Intel UHD Graphics (integrated) NVIDIA RTX A400 4GB 4mDP NVIDIA RTX A1000 8GB 4mDP AMD Radeon RX 6300 2GB DP+HDM
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
Keyboard	HP 320K G2 Wired USB Keyboard
Mouse	HP 128 Laser Wired Mouse HP Black 125 Wired Mouse
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

Note:

The HP EliteDesk 8 G1i Tower (TWR) PC must be installed in conjunction with the appropriate Mariner Systems Kit:

MS2710 - for desktop configuration

MS2720 - for tower configuration

The HP EliteDesk 8 G1i Small Form Factor (SFF) PC must be installed in conjunction with the appropriate Mariner Systems Kit:

MS2730 - for horizontal mount

MS2740 - for vertical mount

2. DOCUMENTS AND DRAWINGS :

- HP Elite Series Quick Specs No. c09121527 version 23 dated Dec 15, 2025
- Marine Type Approval Test Requirements issue 19 dated November 2025
- MS2740 Assembly issue 2 dated 23 Jan 2026
- MS2730 Assembly issue 2 dated 23 Jan 2026
- MS 2720 Assembly issue 2 dated 23 Jan 2026
- MS2710 Assembly issue 2 dated 23 Jan 2026
- TL25114A Vibration Statement dated 16 March 2026

3. TEST REPORTS :

- Test Report SFF type, No. TL25114 issue 2 dated 20th Feb 2026
- Test Report TWR type, No. TL25113 dated 05th January 2026

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31B/41B**
4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
4.5 - The equipments comply with the test requirements of IEC 60945 4th edition.
4.6 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The above types of product are to be supplied by **Mariner Systems(UK) Ltd** in compliance with the type described in this certificate.
5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
5.3 - **Mariner Systems(UK) Ltd** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
5.4 - For information, **Mariner Systems(UK) Ltd** has declared to Bureau Veritas the following production site(s):

Mariner Systems(UK) Ltd
Oaklands Park
RG41 2FD Wokingham
Berkshire
UNITED KINGDOM

6. MARKING OF PRODUCT :

- Trade name.
- Date of manufacture and serial number.
- Equipment type or model identification under which it was type-tested

7. OTHERS :

It is **Mariner Systems(UK) Ltd**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***