



Marine & Offshore

Certificate number: 60409/A0 BV

File number: AP 4888

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 800 G5

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

EC Code : 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: 15 Jan 2025

For Bureau Veritas Marine & Offshore,

At BV LONDON, on 15 Jan 2020,

Spencer Yule



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.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

- Product model or type description:
HP EliteDesk 800 G5

- Product description:
HP EliteDesk 800 G5 Tower (TWR) & Small Form Factor (SFF) Business PC.

The HP EliteDesk 800 G5 Tower (TWR) Personal Computer must be installed in conjunction with the appropriate Mariner Systems Kit:

- MS2550 – for desktop configuration
- MS2560 – for tower configuration

The HP EliteDesk 800 G5 Small Form Factor (SFF) Personal Computer must be installed in conjunction with the appropriate Mariner Systems Kit:

- MS2570 – for horizontal mount
- MS2580 – for vertical mount

2. DOCUMENTS AND DRAWINGS :

Mariner Systems (UK) Ltd.:

- HP Elite 800 G5 QuickSpec No.: c06320288 - DA16479 Version 15, dated 26-11-2019.
- Mariner Systems Marine Test Requirements Issue 14, dated Oct. 2019.
- HP EliteDesk 800 G5 PC series Component Options, dated 06-12-2019.
- Drawing of filter RF 1004-MST-C No. DS 103-MST, dated 23-09-2015.
- Assembly drawing MS2550_A Issue 1, dated 13-11-2019.
- Assembly drawing MS2560_A Issue 1, dated 13-11-2019.
- Assembly drawing MS2570_A Issue 1, dated 13-11-2019.
- Assembly drawing MS2580_A Issue 1, dated 13-11-2019.

3. TEST REPORTS :

MS Testing:

- Test report No. TL19106 Issue:1, dated 05-12-2019.
- Test report No. TL19111 Issue:1, dated 05-12-2019.
- Test report No. TL19112 Issue:1, dated 05-12-2019.

4. APPLICATION / LIMITATION :

4.1 - BUREAU VERITAS Rules and Regulations 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-PART and AUT-IMS.

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 41B.**

4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.

4.5 - The minimum safe distance at which the equipment may be mounted from a standard or a steering magnetic compass is not to be less than 1000mm.

4.6 - In order to lower the conducted emissions, the power supplies of equipment listed in clause 1, shall be fitted with appropriate on line filter RF 1004-MST-C.

4.7 - Shielded LAN cables should be used in order to comply with the requirement of the EMC test.

4.8 - HP EliteDesk 800 G5 PC with processors Inter Core i9 series are not covered by this certificate.

4.9 - The above products comply with requirements of IACS UR E10 Rev7.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products 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

Wokingham

Berkshire

UNITED KINGDOM

6. MARKING OF PRODUCT :

- Maker's name or trade mark.
- Serial number of the unit.
- 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 ***