



Marine & Offshore

Certificate number: 77367/A0 BV

File number: MPA2401123

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 Z4 G5 Workstation

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 31/41 B.

*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: 25 Sep 2029**

**For Bureau Veritas Marine & Offshore,**

At BV LONDON, on 25 Sep 2024,

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.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=xuzzzalwlr>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

- Product model or type description:

#### **HP Z4 G5 Workstation**

- Product description:

The HP Z4 G5 Workstation must be installed in conjunction with the appropriate Mariner Systems Kit:

- MS3110 – for desktop configuration
- MS3120 – for tower configuration

### **2. DOCUMENTS AND DRAWINGS :**

#### **Mariner Systems (UK) Ltd.:**

- HP Z4 G5 Workstation QuickSpecs N° c08482306 - DA17147 - Version 22, dated 1 Apr 2024.
- HP Z4 G5 Workstation Component Options v.1, dated 17 Apr 2024
- Assembly drawing N° MS3110\_A, Issue 1, dated 14 Mar 2024.
- Assembly drawing N° MS3120\_A, Issue 1, dated 14 Mar 2024.
- RFI Circuit Diagram No DS 106-MST, Issue 1.1. , dated 04 Apr 2024.
- Mariner Systems Marine Test Requirements Issue 17, dated Jun 2023.

### **3. TEST REPORTS :**

#### **MS Testing:**

- Test report N° TL24009, dated 16 Apr 2024.
- Test report N° TL24010, dated 16 Apr 2024.

### **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: 31/41 B.**

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 1300mm.

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 1010-MST-A".

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

4.8 - 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 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**  
**RG41 2FD 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 \*\*\*