



Confirmation of Product Type Approval

Company Name: MARINER SYSTEMS UK LTD

Address: OAKLANDS PARK RG41 2FD United Kingdom

Product: Mounting Devices for PCs and Monitors

Model(s): Mounting devices with HP Elite Tower 800 G9 Desktop PC/HP Elite SFF 800 G9 Desktop PC

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	22-2334947-PDA	23-DEC-2022	22-DEC-2027
Manufacturing Assessment (MA)	20-4451837	13-OCT-2020	04-NOV-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Mounting devices intended to be installed along with the HP Elite Tower 800 G9 Desktop PC/HP Elite SFF 800 G9 Desktop PC for use on ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards.

Description

HP Elite Tower 800 G9 Desktop PC must be installed in conjunction with Mariner Kit MS2650 or MS2660.

HP Elite SFF 800 G9 Desktop PC must be installed in conjunction with Mariner Kit MS2670 or MS2680.

The mounting device is fitted with bespoke anti-vibration mounts together with an in-line power filter RF 1004-MST-C as detailed in the assembly drawing.

Ratings

Voltage: 100-240VAC

Frequency: 50-60Hz

Operation Temp: +5C to +35C

Service Restrictions

Unit Certification is not required for this product.

If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes, Drawings and Documentation

Drawing No. 1004-MST-C, RF 1004-MST-C, Revision: -, Pages: 01

Drawing No. Component Options, HP Elite 800 G9 PC Component Options Nov 22, Revision: -, Pages: 02

Drawing No. ISO 9001, ISO 9001 Certificate, Revision: -, Pages: 01

Drawing No. MS2650_A, MS2650 Assembly Drawing, Revision: -, Pages: 01

Drawing No. MS2660_A, MS2660 Assembly Drawing, Revision: -, Pages: 01

Drawing No. MS2670_A, MS2670 Assembly Drawing, Revision: -, Pages: 01

Drawing No. MS2680_A, MS2680 Assembly Drawing, Revision: -, Pages: 01

Drawing No. QuickSpec, HP Elite Series 800 G9 PC QuickSpec v.28, Revision: -, Pages: 107

Drawing No. TL22277, Test Report for HP Elite 800 G9 SFF PC, MS Testing, Durham, UK, Date : 17.11.2022, Revision: -, Pages: 165

Drawing No. TL22296, Test Report for HP Elite 800 G9 TWR PC, MS Testing, Durham, UK, Date : 17.11.2022, Revision: -, Pages: 160

Drawing No. Test Requirements, Marine Type Approval Test Requirements Issue 16, Revision: -, Pages: 61

Drawing No. UKAS Schedule, UKAS Schedule of Accreditation Issue 26, Revision: -, Pages: 10

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 22/Dec/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

- Marine Vessels Rules (2022): 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-9-9/7, 4-9-9/13, 4-9-9/Table1;
- Mobile Offshore Units (2022): 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;
- Facilities on Offshore Installations Rules (2022): 1-1-4/9.7, 1-1-A2, 1-1-A3;
- Steel Vessels for Service on Rivers and Intracoastal Waterways Rules (2022): 1-1-4/7.7, 1-1-A3, 1-1-A4;
- High-Speed Crafts Rules (2022): 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-6-1/11, 4-7-9/7, 4-7-9/15, 4-7-9/Table 9;
- Steel Barge Rules (2022): 1-1-4/7.9, 1-1-A3, 1-1-A4;

International Standards

IACS UR E10 Rev.8: 2022

IEC 60945 Ed. 4.0:2002/COR1:2008

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read 'Joseph W. ...', is positioned above the printed name and title.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 03-Jan-2023 10:17

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.