



**TYPE APPROVAL CERTIFICATE**  
No. **ELE095219XG**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>Personal computer</b>
<i>Type</i>	<b>HP Z4 G4 Workstation In Conjunction with Mariner Kit MS3070 and MS3080</b>
<i>Applicant</i>	<b>MARINER SYSTEMS UK LTD OAKLANDS PARK WOKINGHAM BERKSHIRE RG41 2FD UNITED KINGDOM</b>
<i>Manufacturer</i>	<b>HEWLETT PACKARD</b>
<i>Place of manufacture</i>	<b>20555 SH249 HOUSTON, TX 77070 UNITED STATES OF AMERICA</b>
<i>Reference standards</i>	<b>Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.</b>

*Issued in* **Hamburg** on **July 19, 2019**. *This Certificate is valid until* **July 18, 2024**

RINA Services S.p.A.  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure



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**HP Z4 G4 Workstation In Conjunction with Mariner Kit MS3070 and MS3080**

**Product description:**

The HP Z4 G4 Workstation is a personal PC for marine environmental conditions if Mariner Kits are installed.

**Technical specification:**

The HP Z4 G4 Workstation with component options according to file: "HP Z4 G4 Components Feb 19.pdf".

Additional technical data according to file: "HP Z4 G4 QuickSpec v9 21Sep18.pdf".

**Documents:**

HP Z4 G4 QuickSpec v9 21Sep18;  
HP Z4 G4 Components Feb 19;  
RFI 1007-MST-A Filter Data Sheet - DS 105-MST;  
Dimension Drawing: MS3070 A 1; MS3080 A 1.

**Test Reports:**

Marine TA Test Requirements Issue 13;  
MS Testing: TL18111 HP Z4 G4 Workstation Test Unit A Issue 1;  
TL18112 HP Z4 G4 Workstation Test Unit B Issue 1;  
TL18113 HP Z4 G4 Workstation Test Unit C Issue 1.

**Remarks:**

- The EMC requirements for installation on the Bridge and Deck Zones will be fulfilled by the equipment if in-line power filter: RF 1007-MST-A will be used.
- HP Z4 G4 Workstation: Steering, Standby and Emergency Compass Safe Distance 1.0 Degree deflection: 600 mm and Standard Compass Safe Distance 0.3 Degree deflection: 700 mm.
- Documents relating to each application are to be submitted to the Society's examination prior fitting on board.

**Hamburg July 19, 2019**



A handwritten signature in blue ink, appearing to be 'P. H.', is written over the RINA logo and extends to the right.