



TYPE APPROVAL CERTIFICATE
No. ELE131521XG

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>	Colour Display IPS LED Backlit
<i>Type</i>	HP E23 G4 FHD, E24i G4 WUXGA and E27 G4 FHD
<i>Applicant</i>	MARINER SYSTEMS UK LTD OAKLANDS PARK WOKINGHAM BERKSHIRE RG41 2FD UNITED KINGDOM
<i>Manufacturer</i>	HEWLETT PACKARD
<i>Place of manufacture</i>	20555 SH249 HOUSTON, TX 77070 UNITED STATES OF AMERICA
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **Hamburg** on **January 18, 2022.** *This Certificate is valid until* **January 17, 2027**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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HP E23 G4 FHD, E24i G4 WUXGA and E27 G4 FHD

Product description:

The **HP E23, E24i** and **E27** series are monitors to be used with mariner kits for desk mounting, wall mounting and console mounting installation.

HP E23 G4 FHD

Type: 23-inch IPS
Resolution: 1920 x 1080 @ 60Hz
Aspect Ratio: 16:09
Viewing Angle (typical): Up to 178° horizontal/178° vertical (1000:1 contrast ratio)
Brightness (typical): 250cd/m²
Power Supply: 100-240V AC 50/60Hz
Connections: 1x DisplayPort™ 1.2
1x HDMI 1.4
1x VGA
4x USB A
1x USB B
Mariner Kit: MS1610 - Desk Mount Configuration
MS1615 - Wall Mount Configuration
MS1620 - Console Mount Configuration

HP E24i G4 WUXGA

Type: 24-inch IPS
Resolution: 1920 x 1200 @ 60Hz
Aspect Ratio: 16:10
Viewing Angle (typical): Up to 178° horizontal/178° vertical (1000:1 contrast ratio)
Brightness (typical): 250cd/m²
Power Supply: 100-240V AC 50/60Hz
Connections: 1x DisplayPort™ 1.2
1x HDMI 1.4
1x VGA
5x USB 3.2 ports (4 downstream and 1 upstream)
Mariner Kit: MS1630 - Desk Mount Configuration
MS1635 - Wall Mount Configuration
MS1640 - Console Mount Configuration

HP E27 G4 FHD

Type: 27-inch IPS
Resolution: 1920 x 1080 @ 60 Hz
Aspect Ratio: 16:09
Viewing Angle (typical): Up to 178° horizontal/178° vertical (1000:1 contrast ratio)
Brightness (typical): 250cd/m²
Power Supply: 100-240V AC 50/60Hz
Connections: 1x DisplayPort™ 1.2
1x HDMI 1.4
1x VGA
4x USB A
1x USB B
Mariner Kit: MS1650 - Desk Mount Configuration
MS1655 - Wall Mount Configuration
MS1660 - Console Mount Configuration

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Documents:

Data sheets: HP E23 G4 FHD QuickSpec v.3; HP E24i G4 WUXGA QuickSpec v.4; HP E27 G4 FHD QuickSpec v.3;
Drawings: MS1610,A,1; MS1615,A,1; MS1620,A,1; MS1620,DD,1; MS1630,A,1; MS1635,A,1; MS1640,A,1; MS1640,DD,1;
MS1650,A,2; MS1655,A,2; MS1660,A,2; MS1660,DD,1;

Test reports:

MS Testing: TL21010 HP E23 G4 FHD 23 inch monitor dated 13 April 2021; TL21014 HP E24i G4 WUXGA 24 inch monitor dated 13 April 2021; TL21023 HP E27 G4 FHD 27 inch monitor dated 13 April 2021;

Remarks:

- The products fulfill **EC-Code: 3a1**.
- The EMC requirements for installation on the Bridge and Deck Zones will be fulfilled by the equipment

Hamburg January 18, 2022

