



## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Mariner Systems (UK) Ltd</b>
<b>Address</b>	Oaklands Park, Wokingham, RG41 2FD, United Kingdom
<b>Type</b>	Marine Computer
<b>Description</b>	HP Elite 800 G9 Desktop PC Small Form Factor (SFF) and Tower (TWR) for use in Navigation, Control, Loading and General-Purpose Applications
<b>Trade Name</b>	HP Elite Series 800 G9 Desktop PCs
<b>Application</b>	Marine and Offshore
<b>Specified Standard</b>	Marine use in environmental categories ENV1, ENV2& ENV3 as described in LR Test Specification No1, 2021. IACS Unified Requirements E10 plus relevant sections of EN60945 LR Rules and Regulations for the Classification of Ships
<b>Ratings</b>	Voltage Supply: 230 V ac at 50/60Hz; 115Vac at 60Hz.
<b>Additional Tests</b>	Elite 800 G9 SFF Acoustic Noise 34.5 dB Powered Compass safe Distance 1 Degree Deflection 700mm 0.3 Degree Deflection 1000mm Shock 15g 11ms Low Temperature, -25 deg C for 16 hours  lite 800 G9 TWR Acoustic Noise 29.3 dB Powered Compass safe Distance 1 Degree Deflection 800mm 0.3 Degree Deflection 1000mm Shock 15g 11ms Low Temperature, -25 deg C for 16 hours

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### Other Conditions

Must be installed with:  
Applicable Mariner Kit:  
MS2650: HP Elite 800 G9 Desktop PC TWR Desktop configuration  
MS2660: HP Elite 800 G9 Desktop PC TWR, Tower configuration  
MS2670: HP Elite 800 G9 Desktop PC SFF Horizontal mount  
MS2680: HP Elite 800 G9 Desktop PC SFF Vertical mount  
10.2cm(4 in) clearance to be left on all vented sides to permit required airflow  
Power supply connection to be made using In-line power filter type RF 1004-MST-C.  
Ethernet port connection to be made using a shielded cable.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR2325557TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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