MS2680

Mariner Kit for use with HP Elite 800 G9 SFF PC (Vertical mount)



The HP Elite 800 G9 Small Form Factor (SFF) PC is marine type approved by most of the major international marine Classification Societies when it is installed in conjunction with our Mariner Kit MS2680.

The MS2680 Mariner Kit is primarily designed to fit onto any vertical or inclined surface and affords protection against the effects of vibration and shock experienced in the offshore marine environment and has been tested against IACS Unified Requirement E10 and the relevant sections of IEC60945 (see below right for test details). The MS2680 Mariner kit can also be installed on to any horizontal surface.

This type approved combination of hardware and Mariner Kit can be used as the platform for your critical navigation, control, loading and general purpose applications (please check individual type approval certificates for any restrictions).

"Steer the right course with Mariner Systems"





PRODUCT FEATURES

- Designed for speed and efficiency and equipped with enterprise-class security and manageability, the compact HP Elite 800 G9 Small Form Factor PC helps future proof your fleet with ultimate flexibility and upgradeability
- Intel[®] Q670 chipset supporting 12th Generation Intel[®] Core[™] processors, featuring integrated Intel[®] UHD Graphics and Intel[®] vPro[®] Technology (available with Core[™] i3, Core[™] i5 and Core[™] i7 processors)
- Internal Bays: I x Slim Optical Disc Drive (ODD or removable storage); 2 x 3.5" Internal Storage Drive; I x SD Card Reader (optional)
- Internal Ports: 4 x PCI Express (low-profile);
 4 x SATA ports; 2 x M.2 2280 (for storage)
- USB Ports: 10 x Type-A USB ports (4 front, 6 rear);
 I x USB Type-C USB port (front)
- Graphics Ports: 2 x Dual-Mode DisplayPort™ 1.4a; I x HDMI port 1.4 (rear)
- Flex I/O Port (optional choice of one): I x Dual Type-A SuperSpeed USB 5Gbps; I x Type-C SuperSpeed USB 10Gbps; I x Thunderbolt[™] 3.0 with USB 4.0; I x DisplayPort[™] I.4a; I x HDMI 2.1; I x VGA; I x RS-232 Serial port (rear)
- Network Port: I x RJ45 Network connector (rear)
- ENERGY STAR[®] certified and EPEAT[®] registered where applicable
- CCC, CECP and SEPA certified (where applicable)
- Compliant with the Restrictions of Hazardous Substances (RoHS) Directive – 2011/65/EC
- Compliant with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC
- PC chassis and all internal components and modules are manufactured with low halogen content
- One-year limited warranty on parts and labour as standard

This Mariner Systems solution is tested against the consolidated, 'worst-case' requirements of all the following major international marine Classification Societies:

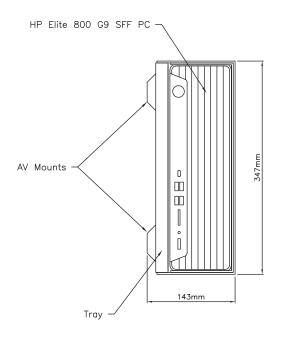
ABS, BV, CCS, ClassNK, DNV, KR, LR, PRS, RINA

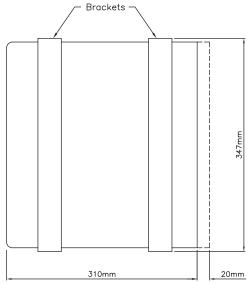
Tests included within the test programme are as follows:

- > Vibration, Shock, Static and Dynamic Inclination
- > Dry & Damp Heat, Low Temperature
- > Acoustic Noise, Compass Safe Distance
- > High Voltage, Power Supply Variation & Power Supply Failure
- > Conducted LF & RF, Electromagnetic Field
- > Radiated & Conducted Emissions, Electrostatic Discharge
- > Insulation Resistance, Burst / Fast Transients
- > Surge Immunity, Access to Dangerous Voltages

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SYSTEMS

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OPERATING GUIDELINES

Although all of our solutions are tested against extreme environmental conditions for the purposes of marine type approval, installation should take into account the following guidelines:

> Keep the computer away from excessive moisture, direct sunlight and the extremes of heat and cold. Wherever possible, ensure that the unit is operated within the manufacturer's recommended operating range:

	Operating	Non-Operating
Temperature	+10° to +35°C (+50° to +95°F)	-30° to +65°C (-22° to +149°F)
Humidity	10% to 90% (non-condensing)	5% to 95% (non-condensing)

- > Leave a 10.2 cm (4-inch) clearance on all vented sides of the computer to permit the required airflow
- > Never restrict airflow into the computer by blocking any vents or air intakes
- > Occasionally clean the air vents on all vented sides of the computer
- > If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply

By following these guidelines, you will maximise the life of your computer and minimise service costs.

STATISTICS

Overall Fitted Dimensions	143mm (w) x 347mm (h) x 330mm (d)	
Weight (Mariner Kit only)	1.9 kg	
Weight (including hardware)	7.0 kg (exact weight depends upon configuration)	
Chipset	Intel [®] Q670	
Processor	Intel [®] 12 th Generation Core™ i7, i5 & i3	
Memory	Up to 128 GB DDR5-4800 DIMM	
Storage	500 GB to 2 TB 3.5-inch SATA (7,200 rpm); 500 GB to 1 TB 2.5-inch SATA (7,200 rpm); 500 GB 2.5-inch SATA SED Opal 2 (7,200 rpm); 256 GB to 1 TB M.2 2280 PCIe NVMe SSD; 256 GB to 2 TB M.2 2280 PCIe NVMe TLC SSD	
Keyboard	HP USB Keyboard	
Mouse	HP USB Mouse	
Networking (integrated)	Intel [®] I219LM GbE LOM	
Graphics (integrated)	Intel [®] UHD Graphics	
Optical Storage	HP 9.5mm Slim DVD-ROM; HP 9.5mm Slim DVD Writer	
Operating System	Windows 11; Windows 10; FreeDOS	
Expansion Slot	2 x low-profile PCIe xI (v3.0) slots; I x low-profile PCIe xI6 (v4.0) slot; I x low-profile PCIe xI6 (v3.0) slot (wired as a x4)	
USB Support	3 x Type-A USB 2.0 (rear); 3 x Type-A USB 3.2 Gen I (rear); 4 x Type-A USB 3.2 Gen 2 (front); I x Type-C [®] USB 3.2 Gen 2x2 (front)	
Rear I/O	2 × DisplayPort™ I.4a; I × HDMI I.4; I × RJ-45 Network connector;	
Operating Voltage Range	90 ~ 264 Vac	