

MS2280

Mariner Kit for use with HP Compaq 8200 Elite Small Form Factor PC (Vertical mount)



The HP Compaq 8200 Elite Small Form Factor (SFF) PC is marine type-approved by all of the major international marine Classification Societies when it is installed in conjunction with our Mariner Kit MS2280.

The MS2280 Mariner Kit affords protection against the effects of vibration and shock experienced in the offshore marine environment and has been type-tested against IACS Unified Requirement E10 and the relevant sections of IEC 60945 (see below right for test details).

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).

“Proven solutions for a demanding environment”



WHAT IS SO SPECIAL ABOUT THE HP COMPAQ 8200 ELITE SFF PC?

- ◆ Provides all the benefits of a full-size enterprise PC in a sleek, space-saving design without sacrificing speed, power, or serviceability
- ◆ Only two-thirds the size of a conventional desktop PC
- ◆ The 8200 Elite has been engineered for the specific needs of business computing
- ◆ Lengthy lifecycle (approx 15 months) and stable hardware and software images
- ◆ The 8200 Elite delivers 50% improved energy efficiency when compared to the dc7900
- ◆ The 8200 Elite meets or exceeds many voluntary and mandatory global environmental regulations and standards – EPEAT Gold registered and ENERGY STAR® qualified
- ◆ Tool-less serviceability features for easier upgrades and repairs
- ◆ Built around the Intel® Q67 Express chipset and the latest Intel® 2nd Generation Core™ processors to provide the performance you expect from a commercial class PC
- ◆ Integrated Intel® HD Graphics 2000/3000 delivers exceptional graphics performance for all essential and multimedia requirements
- ◆ One low-profile PCI slot; Two low-profile PCI Express x16 slots; One low-profile PCI Express x1 slot
- ◆ Four front and six rear USB 2.0 ports; One DisplayPort
- ◆ Three-year limited warranty on parts and labour as standard

This Mariner system is type-tested against the consolidated 'worst-case' requirements of all the major international marine Classification Societies:

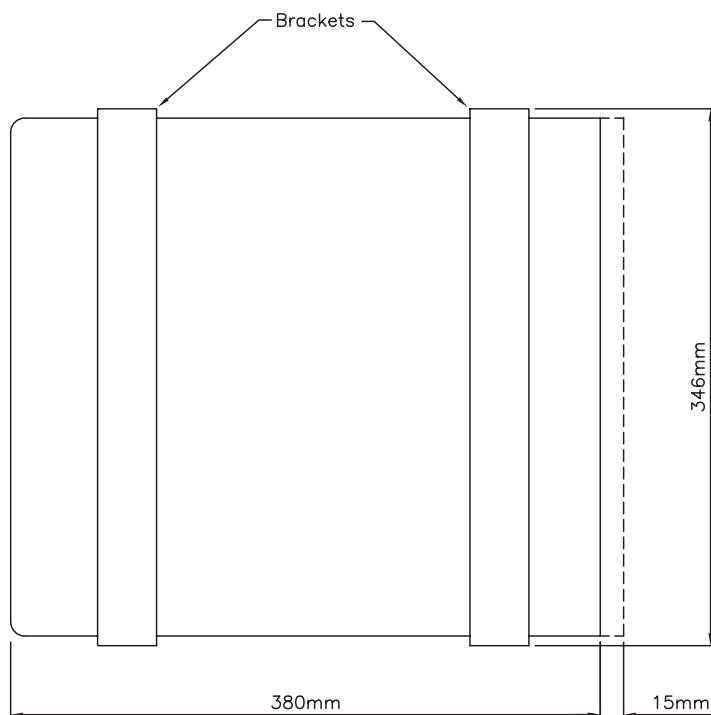
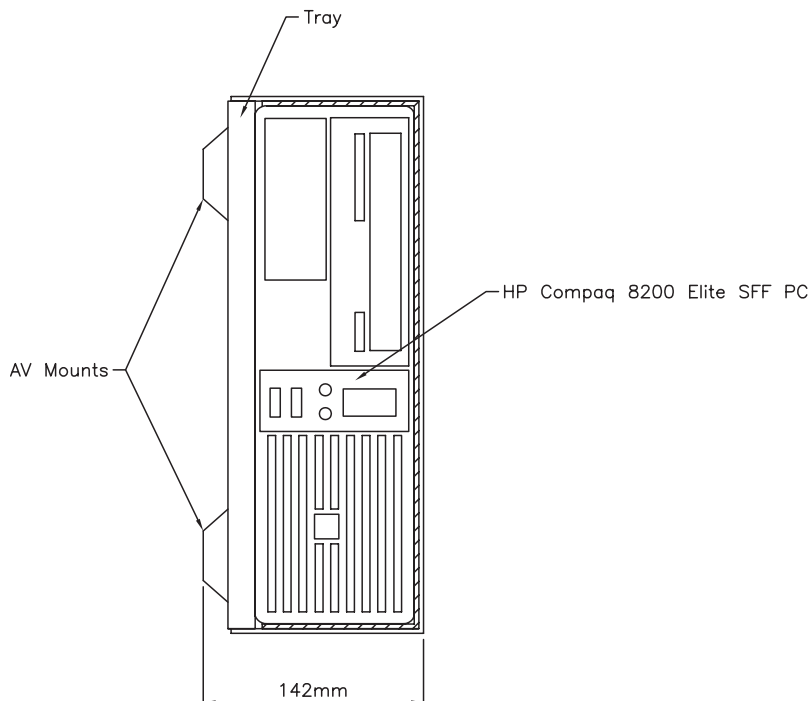
ABS, BV, CCS, DNV, GL, KR, LR, NKK, PRS, RINA

Type-tests included on 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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OPERATING GUIDELINES

Although all our equipment is 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 moisture and the extremes of heat and cold and, wherever possible, ensure that the unit is within the manufacturer's specified operating/non-operating ranges:

	Operating	Non-Operating
Temperature	+10° to +35°C (+50° to +95°F)	-30° to +60°C (-22° to +140°F)
Humidity	10% to 90% (non-condensing)%	5% to 95% (non-condensing)

- Leave at least 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 the front, back and any other vented side of the computer as lint, dust and other foreign matter can block the vents and limit the airflow
- 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 equipment and minimise service costs.

STATISTICS

Overall Fitted Dimensions	142mm (w) x 346mm (h) x 395mm (d)
Weight (Mariner Kit only)	Approx 2.2 kg
Weight (including hardware)	Approx 10 kg
Chipset	Intel® Q67 Express
Processors	Intel® Core™ i7 2600 (3.40 GHz, 8M cache, 4 cores); Intel® Core™ i5 2400 / 2500 (3.10 to 3.30 GHz, 6M cache, 4 cores); Intel® Core™ i3 2100 / 2105 / 2120 (3.10 to 3.30 GHz, 3M cache, 2 cores); Intel® Pentium® G620 / G630 / G840 / G850 (2.60 to 2.90 GHz, 3M cache, 2 cores)
Memory	Up to 16 GB DDR3 SDRAM
Hard Drive(s)	250 GB to 1 TB Serial ATA 6.0 GB/s (7200 rpm); 160 GB Serial ATA 3.0 GB/s (7200 rpm) 2.5-inch; 80 GB Serial ATA 3.0 GB/s SSD
Keyboard	HP Standard (PS/2 or USB); HP Washable (USB/PS/2); HP USB Smart Card (CCID)
Mouse	HP 2-Button Optical Scroll (PS/2 or USB); HP Laser (USB)
Network Card	Integrated Intel® 82579LM Gigabit Ethernet
Graphics	Intel® HD Graphics 2000/3000 (integrated with Intel® Q67 Express chipset)
Optical Storage	HP SATA DVD-ROM; HP SATA SuperMulti LightScribe DVD Writer
Audio	Integrated HD audio with Realtek ALC261 codec
Operating System	Genuine Windows® 7 Ultimate 32 or 64-bit; Genuine Windows® 7 Professional 32 or 64-bit; Genuine Windows® 7 Home Premium 32 or 64-bit; Genuine Windows® 7 Home Basic 32-bit; Genuine Windows® Vista Business I; Genuine Windows® Vista Home Basic I
Slots	1 low-profile PCI; 2 low-profile PCI Express x16; 1 low-profile PCI Express x1
USB support	10 x USB 2.0 ports - 4 front and 6 rear
Interfaces	1 x Serial port (2nd optional); 1 x Parallel port (optional)