

Type Approval Certificate



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

Certificate No. **75 094 - 09 HH**

Company **Mariner Systems (UK) Ltd.
Oaklands Park
Wokingham, Berkshire RG41 2FD, UNITED KINGDOM**

Product Description **General Purpose Computer
HP Compaq dc7900**

Type **HP Compaq dc7900 Small Form Factor (SFF) and HP Compaq dc7900 Convertible Minitower (CMT) PC used with Mariner Kit**

Environmental Category **C; EMC1**

Technical Data /
Range of Application **HP dc7900 SFF PC must be used with Mariner Kit MS2170 (Desktop) or MS2180 (Vertical Mount)
HP dc7900 CMT PC must be used with Mariner Kit MS2150 (Desktop) or MS2160 (MiniTower)
Processor:
Intel Pentium E5200 (2.50/800/2M); Intel Pentium E2220 (2.40/800/1M)
Intel Pentium E2200 (2.20/800/1M)
Intel Celeron 440 (2.00/800/512K)
Intel Core 2 Quad Q9400 (2.66/1333/6M)
Intel Core 2 Quad Q8200 (2.33/1333/4M)
Intel Core 2 Duo E8600 (3.33/1333/6M)
Intel Core 2 Duo E8500 (3.16/1333/6M)
Intel Core 2 Duo E8400 (3.00/1333/6M)
Intel Core 2 Duo E8300 (2.83/1333/6M)
Intel Core 2 Duo E7300 (2.66/1066/3M)
Intel Core 2 Duo E7200 (2.53/1066/3M)**

Test Standard **Guidelines for the Performance of Type Approvals Part 2, Edition 2003
Regulations for the Use of Computers and Computer Systems**

Documents **Test report: No. TL1226, TL1227, TL1228 and TL1229 dated 05-12-2008,
Specification DA-13029 Version 6 dated 20-10-2008; DA-13139 Version 1 dated 24-09-2008; HPdc7900-Components dated 12-11-2008; MS2150_A; MS2160_A; MS2170_A
and MS2180_A ASSEMBLYdated 25-11-2008**

Remarks **None**

Valid until **2014-05-10**

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File No. I.B.05

Hamburg, 2009-05-11

Germanischer Lloyd

Jürgen Wittburg

Andrea Grün

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Intel Q45 Express chipset

Memory: 512MB to 8 GB DDR2 PC2-6400 (800MHz) RAM
Floppy Drive: 1.44 MB DS710B/T/G (391187-001)
Hard Disk Drive: 80 to 500GB SATA 3.0 Gb/s (7200 rpm)
Tests and Evidence regarding Requirement Class 3

Power: SFF 240 W max. ; CMT 365 W max.
Keyboard: HP PS/2 Standard; HP USB Standard

Mouse: HP PS/2 2-Button Optical Scroll; HP USB 2-Button Optical Scroll

Graphics Card :
NVIDIA Quadro NVS 290 256MB DH PCIe x 16
ATI Radeon HD 3650 512MB DH PCIe x16
ATI Radeon 3470 256MB SH PCIe x16
ATI Radeon HD 2400XT 256MB DH PCIe x16
Matrox QID LP 128MB PCIe Quad Head
Intel Graphics Media Accelerator 4500

Optical Drive: SATA Super Multi LightScribe DVD Writer or 16x/48x DVD-ROM

Network Interface:
Integrated Intel 82567LM Gigabit Network Connection
Broadcom NetXtreme Gigabit Plus PCIe NIC
Silicom Dual Port Copper Gigabit Ethernet PCIe x1 Server Adapter

Software Version Operating System:

Windows XP Professional; XP Home; FreeDOS
Windows Vista Business 64, Vista Business 32, Vista Home Basic 32, Vista Ultimate 32, Vista Business with downgrade to Windows XP Professional

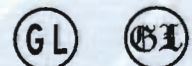
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Miscellaneous:

HP PCI Riser Card for SFF
HP 22-in-1 Media Card Reader
2nd serial port adapter
HP FireWire IEEE 1394 PCI card
HP Parallel Port adapter
HP DisplayPort to DVI-D Adapter
Mtron MOBI 3500 32GB 3.5-inch SSD
Mtron MOBI 3500 16GB 3.5-inch SSD
Transcend 32GB 2.5-inch SSD
IDS FALCON-LP Frame Grabber PCI

Tests and evidence according Requirement Class 3.

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