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.	60 235 - 13 HH
Company	Mariner Systems (UK) Ltd. Oaklands Park Wokingham, Berkshire RG41 2FD, UNITED KINGDOM
Product Description	Workstation
Туре	HP Z420 used with Mariner Kit MS3030 and MS3040
Environmental Category	C, EMC1
Technical Data / Range of Application	HP Z420 used with Mariner Kit MS3030 (Desktop configuration) and MS3040 (Minitower configuration) Processor: Intel Xenon up to and including E5-2600 & E5-1600 series 3.6GHz clock speed, 20MB cache, 8 cores
	Memory: Up to 64 GB 1600 MHz DDR3 Unbuffered SDRA Memory slots: 8 DIMM
	Optical Drive: 16X DVD-ROM SATA 16X DVD+/-RW SuperMulti SATA Blu-ray Writer
Test Clandard	Outdating for the Defermence of Tune Approvals VI.7.2 Edition 2003
Test Standard	Guidelines for the Performance of Type Approvals VI-7-2, Edition 2003 Regulations for the Use of Computers and Computer Systems
Documents	Test reports: No. TL13011 and TL13012-EMC dated 07-03-2013, TL13011-ENV Issue 02 and TL13012-ENV Issue 02 dated 11-03-2013; Drawing MS3030_A ASSEMBLY and MS3040_A ASSEMBLY dated 02-02-2013 HPZ420-Components dated 03-2013
Remarks	None
Valid until	2018-05-12
Page 1 of 3	Type Approval Symbol (GL)
File No. I.B.05 Hamburg, 2013-05-13	All il Co.
Germanischer L	loyd Marco Rinkel Andrea Grün
This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".	

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Hard Disk:

250 GB SATA 6.0 Gb/s (7200 rpm) 500 GB SATA 6.0 Gb/s (7200 rpm) 1 TB SATA 6.0 Gb/s (7200 rpm) 2 TB SATA 6.0 Gb/s (7200 rpm) 3 TB SATA 6.0 Gb/s (7200 rpm) 250 GB SATA SFF (10000 rpm) 500 GB SATA SFF (10000 rpm) 1 TB SATA SFF (10000 rpm) 128 GB SATA 6.0 Gb/s Solid State Drive (SSD) 256 GB SATA 6.0 Gb/s Solid State Drive (SSD) 300 GB SAS (10000 rpm) 600 GB SAS (10000 rpm)

Graphics Card: NVIDIA NVS 300 512MB NVIDIA NVS 310 512MB NVIDIA NVS 510 2GB NVIDIA Quadro 410 512MB NVIDIA Quadro 600 1GB NVIDIA Quadro 4000 2GB

Network Interface Card: Intel 82579LM Gigabit Ethernet Network Connection (integrated) Intel Gigabit CT Desktop NIC (PCIe x1) Broadcom NetXtreme GbE Ethernet Plus NIC (PCIe x1) HP 361T PCIe Dual Port Gigabit NIC (PCIe x4) HP X520 10GbE Dual Port Adapter

Keyboard: HP PS/2 Standard Keyboard HP USB Standard Keyboard

Valid until

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60 235 - 13 HH Certificate No.

Mouse:

HP PS/2 Optical Scroll Mouse **HP USB 2-Button Optical Scroll HP USB Laser Mouse**

Miscellaneous:

LSI 9212 4-Port SAS 6Gb/s RAID Card HP 22-in-1 Media Card Reader

Operating system:

Windows 8 Professional (64-bit) Windows 7 Ultimate (64-bit) Windows 7 Professional (64-bit) Windows 7 Professional (32-bit) SUSE Linux Enterprise Desktop 11 Red Hat Enterprise Linux (RHEL)

Additional Documents: Specification DA-14261 Version 14 dated 15-01-2013;

Valid until

2018-05-12

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