中国船级社
CHINA CLASSIFICATION SOCIETY

型 式 认 可 证 书
CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. LD18T00003_06

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify that the following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/ Product Approved

船用计算机

Marine Computer System

制造厂/ Manufacturer

Mariner Systems (UK) Ltd

Oaklands Park, Wokingham,Berkshire RG41 2FD, United Kingdom

附加标志/ Notations

无/Nil.

认可标准/ Approval Standard

1. 中国船级社钢质海船入级规范（2018）以及修改通报第七篇第二章
   CCS Rules For Classification Of Sea-Going Steel Ships 2018 and amendments Part 7 Chapter 2
2.
   IACS UR E10 Rev.6
3.
   IEC 60945-2002 and Corrigendum 1-2008

证书有效期至/ **This Certificate is valid until**   2023年1月5日 / Jan. 5, 2023

发证机构	中国船级社伦敦办事处	签发日期	2019年4月29日
Issued by	CCS London Office	Date	Apr. 29, 2019

LD35907634
No. 17627822

产品明细/ Product Description

船用计算机/Marine Computer System
产品型号/Type : HP EliteDesk 800 G4 Small Form Factor (SFF) and Tower (TWR) PC

额定电压/Rated Voltage : AC100~ 240 V

批准的图纸和设计计算书/ Approved Drawings and Design Calculations

图纸批准号/ Drawings Approval No. : NP18PPP00192

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No.	:	TL18114
试验报告日期/Test Report Date	:	2018-11-21
试验单位/ Laboratory	:	—
		MS Testing
试验单位地址/ Test Address	:	—
		5 Maple Way, Aycliffe Industrial Park, Newton Aycliffe, Co Durham DL5 6BF
试验报告编号/Test Report No.	:	TL18115
试验报告日期/Test Report Date	:	2018-11-21
试验单位/ Laboratory	:	—
		MS Testing
试验单位地址/ Test Address	:	—
		5 Maple Way, Aycliffe Industrial Park, Newton Aycliffe, Co Durham DL5 6BF
试验报告编号/Test Report No.	:	TL18116
试验报告日期/Test Report Date	:	2018-11-21
试验单位/ Laboratory	:	—
		MS Testing
试验单位地址/ Test Address	:	—
		5 Maple Way, Aycliffe Industrial Park, Newton Aycliffe, Co Durham DL5 6BF

产品适用范围/Application of the Product

Marine and Offshore Application.

认可保持条件/ Maintenance Requirements of Approval

1.型式认可后，如果产品及其重要零部件的设计、所用材料或制造方法有所改变，且影响到产品的主要特性、特征；或产品的性能指标有所更改，且超过认可的范围，则有关图纸和文件应经检验机构审批。并在检验机构认为必要时，经本社检验人员见证有关试验和进行检查，其结果应能证实仍符合认可条件。
After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.
2.工厂的专业质量管理体系应保持有效运行，并且与认可时一致。如果质量管理体系发生改变，应经原体系认证机构审核并报本社批准。
The professional quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.
3.认可证书有效期内，如果出现可能导致本社取消认可的情况，工厂应及时采取有效的纠正措施。
Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.
4.在认可证书有效期内，本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核，以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。
Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

认可后的产品检验方式/ Method of Product Inspection after Approval

按照规范只认可不进行产品检验的产品/The product approved only in term of the rules:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验，经检验合格后由制造厂签发合格证明，并连同该产品的本社认可证书复印件一并交付用户，制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。
After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components

产品如下原材料和零部件的制造厂清单，经本社批准方可变更/The list of manufacturer for the following materials and components of the product should not be changed without the Society's approval: 无/Nil.

产品如下原材料和零部件应由本社认可的的制造厂生产/The following materials and components of the product should be manufactured by the factory approved by the Society:无/Nil.

产品如下原材料和零部件应经本社检验，持有本社产品证书/The following materials and components of the product should be inspected and certificated by the Society: 无/Nil.

责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证，并且不对与本社授权或检验无关的各方负责，不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。
The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

其他/Others

HP EliteDesk 800 G4 Small Form Factor (SFF) and Tower (TWR) PC must be installed in conjunction with Mariner Kit MS2510, MS2520, MS2530, or MS2540.

本证书基于原型式认可证书(No. LD16T00007)变更。
This Certificate is modified for the Type Approval Certificate No. No. LD16T00007.

本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。
The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社伦敦办事处

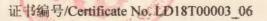CCS London Office   *****本证书正文完/ End of Text*****

注：本证书含有附页，共2页

Note:The certificate is attached with 2 additional page(s)

Component Options - History

Product: HP EliteDesk 800 G4 PC Series

Component Description	Comment / Prior test report
Processor: ▪ All processors up to and including Intel Core i7, Core i5, Core i3 or Intel Pentium with 3.7GHz (4.6GHz turbo) frequency, 12MB cache, 6 cores	Refer to TL18114 / TL18115 / TL18116
Memory: ▪ Up to 64 GB DDR4-2666 DIMM	Individual testing not required by Class Society Refer to TL18114 / TL18115 / TL18116
Hard Disk: ▪ 512GB M.2 2280 PCIe NVMe TLC SSD ▪ 256GB M.2 2280 PCIe NVMe TLC SSD ▪ 128GB M.2 2280 PCIe TLC SSD ▪ 512GB M.2 2280 PCIe NVMe SSD ▪ 256GB M.2 2280 PCIe NVMe SSD ▪ 1TB PCIe-3x4 NVMe TLC SSD ▪ 2TB SATA-6G 3.5" (7200 rpm) ▪ 1TB SATA-6G 3.5" (7200 rpm) ▪ 500GB SATA-6G 3.5" (7200 rpm) ▪ 1TB SATA-6G 2.5" (7200 rpm) ▪ 500GB SATA 2.5" (7200 rpm) ▪ 500GB SATA 2.5" SED Opal 2 (7200 rpm) ▪ 256GB SATA 2.5" SED Opal 2 TLC SSD ▪ 256GB SATA 2.5" SSD	Refer to TL18115 Refer to TL18115 Refer to TL18114 Refer to TL18116 Refer to TL18116 Refer to TL18114 Refer to TL18115 Refer to TL18116 Refer to TL18114 Refer to TL18116 Refer to TL17060 Refer to TL17060 Refer to TL17057 Refer to TL17059
Optical Drive: ▪ HP ODD 9.5mm DVD Writer ▪ HP ODD 9.5mm DVD-ROM	Refer to TL18114 / TL18115 Refer to TL18116
Graphics Card: ▪ Intel HD Graphics (integrated) ▪ NVIDIA Quadro P400 2GB (PCIe x16) ▪ AMD Radeon R7 430 2GB 2DP (PCIe x16)	Refer to TL18114 / TL18115 / TL18116 Refer to TL18115 Refer to TL18116

No 18392594

Network Interface Card:	
▪ Intel Ethernet I210–T1 GbE NIC (PCIe x1)	Refer to TL17057 / TL17059
▪ Intel Ethernet I219LM GbE LOM Network Connection (integrated)	Refer to TL18114 / TL18115 / TL18116
Keyboard:	
▪ HP PS/2 Business Slim Keyboard	Refer to TL18114
▪ HP USB Business Slim Keyboard	Refer to TL18115 / TL18116
Mouse:	
▪ HP PS/2 Mouse	Refer to TL18114
▪ HP USB Optical Mouse	Refer to TL18115
▪ HP USB 1000dpi Laser Mouse	Refer to TL18116
▪ HP USB Hardened Mouse	Refer to TL17059
Miscellaneous:	
• HP SD 4 Media Card Reader	Refer to TL18115
• HP Type-C USB 3.1 Gen2 Port	Refer to TL18115
• HP DisplayPort to HDMI True 4K Adapter	Refer to TL18115
• HP 800 G4 TWR Dust Filter	Refer to TL18114
• HP 800 G4 SFF Dust Filter	Refer to TL18116
• HP Serial Port Rear Wall	Refer to TL18116
• HP Serial / PS/2 Module	Refer to TL18114
• HP Parallel Port Card (PCIe x1)	Refer to TL18114
• HP VGA Port	Refer to TL18116
• HP HDMI Port	Refer to TL18114
• Moxa 4-Port RS-232/422/485 Serial Card (PCIe x1)	Refer to TL18116
• HP DisplayPort to DVI-D Adapter	Refer to TL17057 / TL17060
• HP DisplayPort to VGA Adapter	Refer to TL17058 / TL17060
• HP DisplayPort Cable	Refer to TL17059
Operating system:	
▪ Windows 10 Professional (64-bit)	Individual testing not required by Classification Society
▪ Windows 10 Home (64-bit)	
▪ Windows 10 Home Plus (64-bit)	
▪ Windows 10 Home Advanced (64—bit)	
▪ FreeDOS 2.0	

Important Note: This listing includes some components that were type approved as an integral part of a previous PC series and are carried forward as a component option within this latest PC series. The relevant test report numbers are referenced as appropriate.

No. 18392595