Certificate No: LR2003002TA
Issue Date: 10/04/2020
Expiry Date: 09/04/2025

Type Approval Certificate

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

Manufacturer	**Lenovo (Beijing) Limited**
Address	201-H2-6, Floor 2, Building 2, No. 6 Shangdi West Road, Haidian District, Beijing, 100085, China
Place of Production	Lenovo Information Products (Shenzhen) Co., Ltd. No. 30 Taohua Road, Futian Free Trade Zone, Futian District, Shenzhen, Guangdong, 518038, China
Type	Workstation
Description	Workstation
Trade Name	ThinkStation P330 Tiny
Application	Marine application for use in environmental category ENV1, ENV2, and ENV3 Equipment on the bridge and deck zone, as defined in LR Type Approval Test Specification No. 1 March 2019
Specified Standard	Manufacture's specification
Ratings	ThinkStation P330 Tiny: 30CE, 30CF, 30CG, 30D5, 30D6, 30D7 Power : DC 20V(Workstation), AC 100-240V (Adapter); CPU: Intel Core i7-8700T /Intel Core i5-8400T /Intel Core i3-8100T ; Storage(Pre-installed) : 1TB, 512GB, 256GB, 128GB SSD; Operating system(pre-installed): Windows 10;

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Ke Lin Zhang

Senior Specialist to Lloyd's Register
Classification Society (China) Co Ltd
A member of the Lloyd's Register group

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

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Ambient Temperature: 0 oC ~45oC;
Ingress Protection: IP 20

Additional Tests

Low Temperature Test: -15°C, 10 hours, -25 °C, 2hours.
Compass Safe Distance(as per IEC 60945:2002) :
Standard compass safe distance: 950mm
Steering compass safe distance: 600mm
Acoustic noise test: ≤60dB(A) at 1 m(as per IEC 60945:2002) :

Other Conditions

This type approval covers hardware only, system is to be in compliance with the applicable Lloyd's Register Rules and Regulations of Ships when installed on board specific ship and is subject to plan approval on each individual case.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2003002TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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