Certificate No: LR2172062TA
Issue Date: 24/02/2021
Expiry Date: 23/02/2026

# 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** | **ORION TECHNOLOGY CO., LTD.** |
| **Address** | 147, Apogongdan-gil, Apo-eup, Gimcheon-si, Gyeongsangbuk-do, 39670, Korea, Republic of |
| **Type** | Computer Systems |
| **Description** | XEON Server Computer |
| **Trade Name** | SPC-OT21 |
| **Application** | Marine and offshore applications for use in environmental category ENV 3 in the "Bridge and Deck zones" as defined in LR Type Approval System Specification No.1-2020 |
| **Specified Standard** | Manufacture's Specification |
| **Ratings** | Dual Input, AC 110V -240V,50/60 Hz |
| **Additional Tests** | Degrees of protection (IP2X, IEC60529:2013), Acoustic noise and signals (Front-48.6dB, Back-53.2dB, Left-51.1dB, Right-49.3dB, IEC60945:2002), Compass safe distance (in the standard compass-185 cm, in the steering compass-115 cm, IEC60945:2002) |

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**Gyung-Hwan Lee**

Digital & Control Team Leader to Lloyd's Register Asia
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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**Other Conditions**

Suitability of the software and configuration are subject to a separate plan appraisal according to the Lloyd's Register Rules and Regulation when placed on LR classed vessels. Type approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.(In case of applications other than marine) The application of the type approval certificate will be limited to the relevant scope of the specified standard and acceptance thereof by the local authorities.

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 Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR2172062TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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