



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
JS24PTB00498_01

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

江苏海兰船舶电气系统科技有限公司
Jiangsu Highland Integration Technology Co., Ltd.

地址/Address

江苏省南通市苏通科技产业园清枫路199号
No.199, Qingfeng Road, Sutong Science Park, Nantong City, Jiangsu

产品名称/Product

智能信息集成平台
Intelligent Information Platform

附加标志/Notations

无/Nil.

认可标准/Approval Standard

- 中国船级社《钢质海船入级规范》第7篇第1, 2章
Chapter 1, 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships
- 中国船级社《智能船舶规范》第7章
Chapter 1 and 7 of China Classification Society Rules for Intelligent Ships
- 中国船级社《船舶网络安全指南》(2024)第1、2、3章
Chapter 1, 2, 3 of China Classification Society Guidelines for Ship Cyber Security (2024)
- IACS UR E27 (Rev.1) 船载系统和设备网络韧性
IACS UR E27 (Rev.1) Cyber resilience of on-board systems and equipment

用于/Intended for

船舶/Ships

产品明细/Product Description

智能信息集成平台/Intelligent Information Platform (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	HLD-DIP 600	
电源/Power supply	AC220/DC24	V

证书有效期至/This Certificate is valid until 2029年12月27日/Dec. 27,2029

发证机构/Issued by 中国船级社江苏分社
China Classification Society Jiangsu Branch

签发日期/Date 2025年04月30日
Apr. 30, 2025

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体,必须同时使用。纸质证书每页均须由本社盖章方为有效,电子证书含数字签名方为有效,本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时,可以向本社检验机构咨询。本证书凡是未注明版本的规范,其(发证时)最新版本适用于本证书。
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices. For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the this certificate.

Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P025-70153217

软件版本号/Software Version	V 1. x	
系统组成/System Component	详见附页 See Additional Page	
外壳防护等级/Degree of Protection of Enclosure	详见附页 See Additional Page	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP18A01285, NP20PPP02911, NP24PPP01916, NP24PPP03839

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 21AAX3101Y05-90069
试验报告日期/ Test Report Date : 2021-08-27

试验报告编号/ Test Report No. : HLD-DIP600-2021
试验报告日期/ Test Report Date : 2021-06-03

试验报告编号/ Test Report No. : SI24PTCC0018
试验报告日期/ Test Report Date : 2024-07-22

试验报告编号/ Test Report No. : HLD2100-0012
试验报告日期/ Test Report Date : 2025-04-03

试验报告编号/ Test Report No. : 23TAS06P20D32-80100
试验报告日期/ Test Report Date : 2024-01-31

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

按规范认可后应进行产品检验的产品/The product should be inspected in term of the rules:
认可后的产品检验应由本社验船师根据本社规范规定按批准的产品检验计划进行检验，经检验合格后由本社颁发船用产品证书。
After approval, product inspection should be carried out by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

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 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.

备注/Remarks

1. 本证书由原型式认可证书 (No. JS21PTB00085_02) 变更并换新。
This certificate is modified and renewed from the previous Type Approval Certificate No. JS21PTB00085_02.
2. 本产品适用于具有i-Ship(I)附加标志的船舶
This product is suitable for ships with the i-Ship (I) Notations.
网络安全等级: SL0.
Cyber Security Class: SL0
3. 本产品支持不直接与不可信网络连接, 不支持无线访问管理和无线使用控制。
This product does not supports direct connection to untrusted networks and does not support wireless access management and wireless control.
4. 公司应记录软件的所有变更。软件的重大变更应通知本社, 并提交相关文件进行评估。如果评估认定该变更会影响到规范中要求的功能, 应重新进行相关型式试验, 并进行型式认可的相关变更。
All changes in software are to be recorded by the manufacturer. Significant software changes should be notified to the China Classification Society and relevant documents should be submitted for assessment. If the assessment confirms that the change will affect the function required in the rules, relevant type test should be carried out again, and type approval need to be modified.
5. 产品防护等级应与安装场所相适应。
Degrees of protection should meet the requirements of where the product is installed.
6. 该产品的实船配置应用应符合船舶审图中心批准的相关图纸。
The actual ship configuration application of the product shall conform to the relevant drawings approved by the ship drawing examination center.
7. 结合具体项目申请本社检验时, 以下文件应提交批准: CBS资产清单、网络系统拓扑图、配置核查报告。
The following documentation of the specific base individual application is to be submitted for approval in each case: CBS asset inventory ;Topology diagrams ;Test report for configuration of security capabilities.
8. 制造厂应确保产品的开发遵循安全开发生命周期中各阶段的网络安全要求, 编制相应的程序和安全更新文件应持续有效, 并符合本社《船舶网络安全指南》及IACS UR E27要求。
The manufacturer shall ensure that the development of products meets the cyber security requirements at each stage of Secure Development Lifecycle, and develop corresponding procedures and security update documents that are continuously effective and comply with CCS "Guidelines for Ship Cyber Security" and IACS UR E27 requirements.
9. 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.

中国船级社江苏分社

CCS Jiangsu Branch

注: 本证书含有附页, 共1页

Note: The certificate is attached with additional 1 page(s)

智能信息集成平台系统组成/Components of Intelligent Information Platform

序号/NO.	设备类型/ Equipment Type	设备名称/ Equipment Name	设备型号/Type	防护等级 /IP
1	数据采集单元 Data Conversion Unit	智能接口系统 Intelligent Signal Conversion Unit	HLD-iSCU 100	IP22
		NPort 系列串口服务器 Nport Series Serial Port Server	NPort Series	IP22
		机舱数据采集单元 Engine Room Data Conversion unit	M007-1	IP22
			M001-4	IP22
			M002-3	IP22
			M003-4	IP22
2	服务器 Server	主控单元 Main Unit	HLD-MCU200/ HLD-MCU600/ HLD-MCU750/ HLD-MCU770	IP22
		Lenovo SR 系列服务器 Lenovo SR Series Server	Lenovo SR Series	IP22
		DELLR7 系列服务器 DELL R7 Series Server	DELL R7xx Series	IP22
3	显示器 Display	显示单元 Display Unit	HLD-DU109/ HLD-DU112/ HLD-DU134/ HLD-DU135/ HLD-DU138/ HLD-DU140/ HLD-DU141/ HLD-DU160/ HLD-DU161/ HLD-DU162/ HLD-DU163/ HLD-DU164/ HLD-DU165	IP22
4	人机交互单元 Human Interface Unit	人机交互单元 Human Interface Unit	HLD-IU600	IP22
5	电源转换单元 Power Conversion Unit	电源转换单元 Power Conversion Unit	HLD-PCU600	IP22
6	网络设备 Network Device	网络交换机 LAN Switch	HLD-LS600	IP22
		S57xx 系列交换机 S57xx Series LAN Switch	S57xx Series	IP22
7	不间断电源 UPS	不间断电源 UPS	SURT1000 XLIM/ SURTD2200 XLIM/ SURTO23M/ SURTD3000 XLIM	IP22
		蓄电池 Battery	SURT192RMXLB P	IP22
8	路由器 Router	H3C-MSR 系列路由器 H3C-MSR Series Router	H3C-MSR Series	IP22
9	防火墙 Firewall	网络隔离、监控审计 Network isolation,monitoring and auditing	USG63xx Series	IP22