



Marine & Offshore

Certificate number: 75555/A0 BV

File number: MPA2301322

Product code: 44411

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Jiangsu Highland Integration Technology Co., LTD.
NANTONG - CHINA

for the type of product

ALARM AND MONITORING SYSTEMS
HLD-DIP600

Requirements:

Bureau Veritas for classification of steel ships

EC Code : 31

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 02 Dec 2028

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 02 Dec 2023,

Hong Zhang

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The **HLD-DIP600** is designed to host information data service platforms for ship data applications.

It is made of the following components :

Item	Reference	Manufacturer	Certificate			
Display unit	HLD-DU109	Highlander	*			
	HLD-DU112					
	HLD-DU134					
	HLD-DU135					
	HLD-DU140					
	HLD-DU141					
	HLD-DU160					
	HLD-DU161					
	HLD-DU162					
	HLD-DU163					
	HLD-DU164					
	Human computer interface			HLD-IU600	Highlander	*
	Power conversion unit			HLD-PCU600	Highlander	*
	Network switch			HLD-LS600	Highlander	*
S67xx series		Huawei	*			
S57xx series		Huawei	*			
H3C-MSR series router	H3C-MSR810	H3C Technologies	*			
USG63xx series firewalls	USG63xx series	Huawei	*			
Server	HLD-MCU200	Highlander	*			
	HLD-MCU600					
	HLD-MCU750					
	HLD-MCU770					
	SRxxx series			Lenovo	*	
	R7xx series			Dell	*	

*: those components have been approved during the process of issuance of certificate 75555/A0.

2. DOCUMENTS AND DRAWINGS :

- Document HLD2300JC v1.0 dated 2023-08-31
- Document HLD2100GG v1.0 dated August 2023

3. TEST REPORTS :

- Shanghai Electrical Equipment Testing Institute test report 21aax3101y05-90069 dated 27 Aug 2021

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.2 - Approval is valid for ships to be granted with the notations: **SMART, ASYNC-COM, DATA-INFRA**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31**
- 4.4 - The equipment fulfils the EMC requirements for installation in General Power Distribution Zones.
- 4.5 - Each application and configuration is to be submitted to the Society's examination prior to fitting on board.
- 4.6 - Only Hardware and Firmware / Software successfully tested together in compliance with the rules as referred to in cover page, according to the declaration of the manufacturer are covered by this certificate.
- 4.7 - Any modification of the hardware, firmware or software having an impact on the product performance or functionality has to be validated with type testing.
- 4.8 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.
- 4.9 - All the components listed in § 1 have to be used inside a completely closed steel cubicle.
- 4.10 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 8.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The **HLD-DIP600** is to be supplied by **Jiangsu Highland Integration Technology Co. Ltd.** in compliance with the type and the requirements described in this certificate.
- 5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
- 5.3 - BV product certificate is required.
- 5.4 - For information, **Jiangsu Highland Integration Technology Co. Ltd.** has declared to Bureau Veritas the following production site :

Jiangsu Highland Integration Technology Co. Ltd.
No. 199, QingfendRoad
Suxiton Science & Technology Industrial Park
226017 Nantong
CHINA

6. MARKING OF PRODUCT :

- Trade name
- Date of manufacture and serial number
- Equipment type or model identification under which it was type-tested
- Bureau Veritas marks

7. OTHERS :

It is **Jiangsu Highland Integration Technology Co. Ltd.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

***** END OF CERTIFICATE *****