

03 Typical Projects

No.	Project	Ships	Ship Owner/Shipyard	Class
1	3000TEU/2500TEU/2400TEU/2300TEU Container Vessel	32	Evergreen/ Huangpu Wenchong Shipbuilding Jiangnan Shipyard	ABS/NK/RINA
2	11000TEU/7000TEU/1250TEU/950TEU Container Vessel	28	X-PRESS/ Shanghai Waigaoqiao Shipbuilding Huangpu Wenchong Shipbuilding	ABS/DNV
3	2700TEU/2600TEU/2400TEU/1800TEU Container Vessel	46	SITC/ Yangzijiang Shipbuilding Huanghai Shipbuilding	DNV/ABS/CCS/NK
4	84500DWT/80000DWT/63800DWT/62000DWT Bulk Vessel	52	COSCO Shipping/ Chengxi Shipyard Nantong Xiangyu Shipbuilding	CCS/DNV
5	Self-Unloading Bulk Vessel	22	CSL,Algoma/ Chengxi Shipyard Yangzijiang Shipbuilding	DNV/ABS/LR
6	82000DWT Bulk Vessel	18	Dynacom/ Hengli Shipbuilding Qingdao Shipyard	LR/RINA/CCS
7	109999DWT/75000DWT/49500DWT Oil Tanker	20	Hafnia,JPM/ Guangzhou Shipyard International	DNV/BV
8	75000DWT/50000DWT/39000DWT Oil Tanker	20	Evalend/ Yangzijiang Shipbuilding	LR
9	49900DWT Oil Tanker	10	Shell/ Guangzhou Shipyard International	DNV
10	25900DWT/11300DWT/9200DWT/7200DWT Chemical tanker	28	SC Shipping/ Wuchang Shipbuilding Jinling Dingheng Shipbuilding	CCS/ABS
11	38000DWT Chemical tanker	8	Stolt/ Nantong Xiangyu Shipbuilding	LR
12	18500DWT Chemical tanker	10	Athenian Sea Carriers/ Wuchang Shipbuilding	LR
13	10800CEU PCTC	14	HMM, Seaspan/ Guangzhou Shipyard International	DNV/KR
14	9000CEU/7800CEU/7600CEU PCTC	12	Anji Logistics/ Jiangnan Shipyard Jinling Shipbuilding (Nanjing)	DNV/CCS
15	41000m³/25000m³ LPG Carrier	7	Southwest Maritime/ Huangpu Wenchong Shipbuilding	CCS/LR
16	93000m³ VLAC	4	A.W. Shipping/ Jiangnan Shipyard	LR
17	50000T/65000T/70000T/80000T Semi-Submersible Vessel	4	COSCO Shipping/ Guangzhou Shipyard International	CCS
18	64M/65M AHTS	21	VALLIANZ/ Jiangmen Hangtong Shipbuilding Shinyang	ABS
19	SPP40 PSV	9	SCI Euler/ Nantong CIMC Pacific Offshore Engineering	BV
20	Smart Tugboat	6	Tianjin Port/ Jiangsu Zhenjiang Shipyard	CCS

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SIAS-03
Marine Automation System

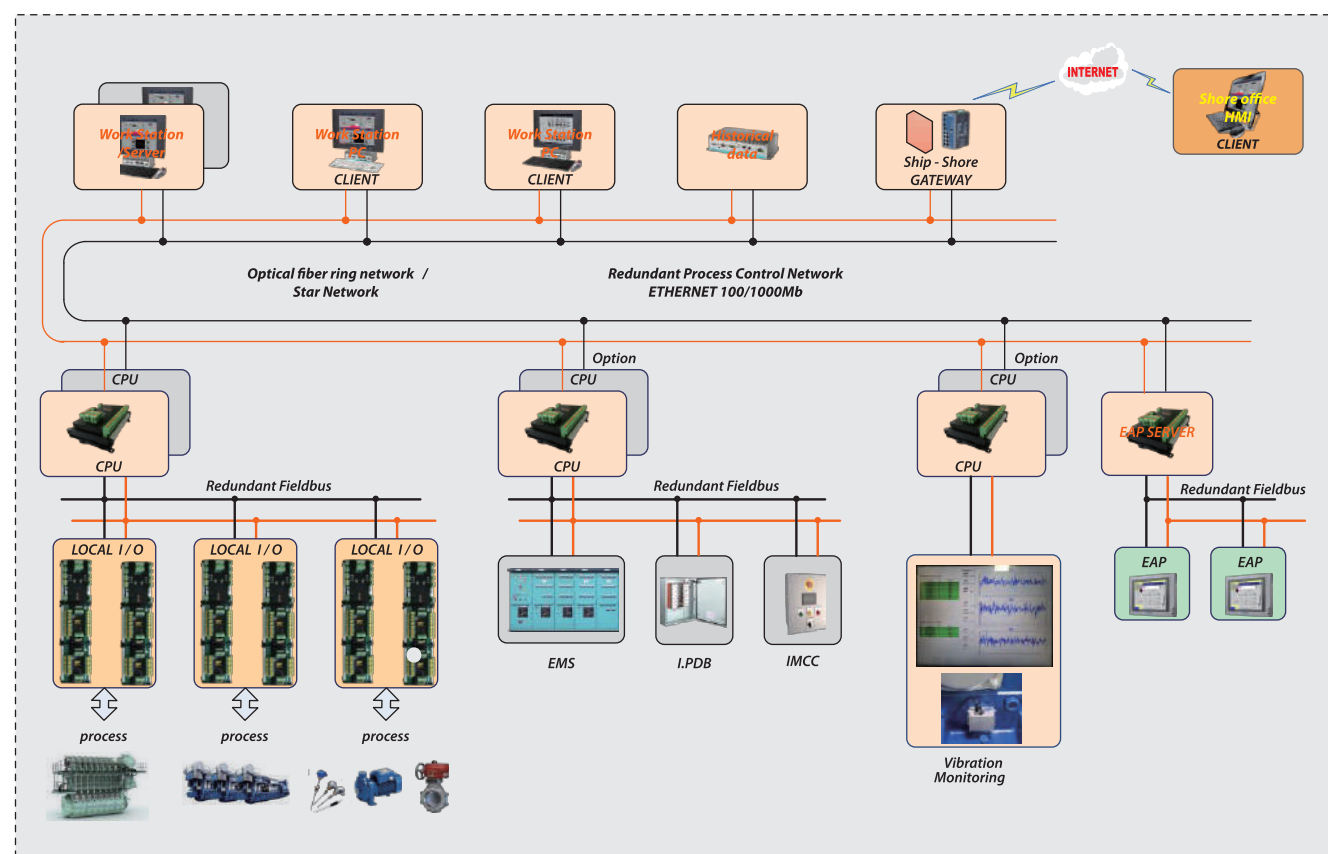


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01 Characteristic

SIAS-03 marine automation system is based on standard module design and provides customized automation solutions for shipowners and shipyards. SIAS-03 is configurable to 20000 channels and covering the whole range from small alarm system to integrated alarm, monitoring and control system. Standard hardware is easy to install, maintenance and expand. Software platform provides a user-friendly interface.

02 System Architecture



SIAS-03 is a distributed system. The operator station network is a redundant LAN for communication between operator station and data acquisition system. The process network is a redundant CANBUS for communication between I/O modules. The standard network communication system is expansibility, high efficiency, economy and safety.

03 Class Type Approval



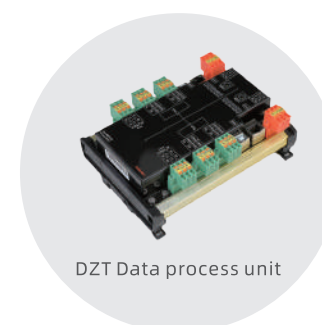
04 Sub-systems and Functionalities

SIAS-03 can include a variety of sub-systems and functionalities according to the different requirements from customers.

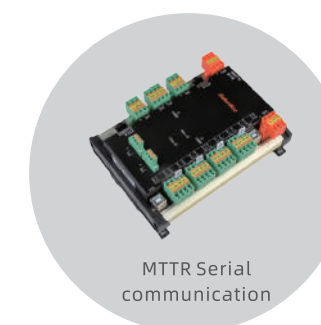
- ① Alarm and monitoring system
- ② Motor management and control system
- ③ Insulation monitoring and fault location system
- ④ Valve remote control system
- ⑤ Tank level gauge system
- ⑥ Energy saving system
- ⑦ Pump and fan control
- ⑧ Fuel oil consumption
- ⑨ Dual language change over
- ⑩ Ship to shore data transmission
- ⑪ Cyber security



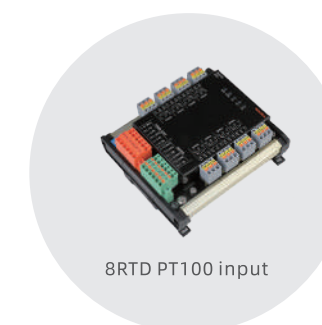
05 Modules



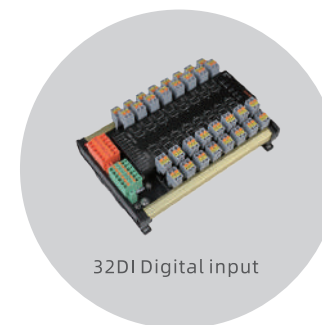
DZT Data process unit



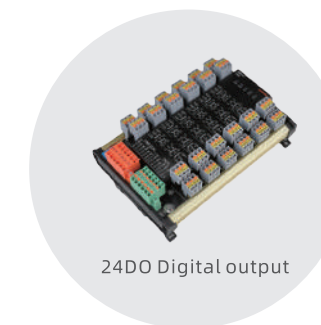
MTTR Serial communication



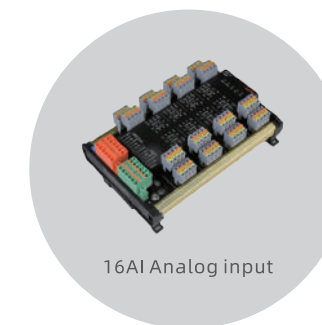
8RTD PT100 input



32DI Digital input



24DO Digital output



16AI Analog input