NDDS-300

BERKIN
ENGINEERING®
Your Trustworthy Partner On Course Of Success

REAL TIME DATA DISTRIBUTION

- Scalable and modular design
- Configurable/Programmable Input/Output
- Real time operating system
- HotSwap modules
- Sensor data and status monitoring
- Data consistency monitoring
- Ethernet, Synchro, USB 3.0, Relay, CAN etc. Ports
- Customizable architecture independent from project
- Remote Monitoring and Control
- SSD back up (Logging) and replaying (Fall-Back)
- Uninterrupted communication of 8 channels with a Bypass unit

- (Near) Real time data (Latency<500 µsec.)
- Fixed jitter delay
- Multifunction CDU support
- Automatic reliable source selection
- Multifunction display support
- Up to 40 x 16Mbps I/O port in basic configuration
- Bypass unit

NDDS-300
Real Time Data Distribution

In all kinds of ships, different source originated data shall be collected from different interfaces, and compiled and distributed to the variety of users by minimizing the delay between the time of generation and time for being ready at user's usage. The new generation NDDS-300 family DDU, in addition to data collection data from the sources, conducts manual or automatic the selection of the data in accordance with the priority with an artificial intelligence for data consistency in parallel and distributes the data within the frame of different algorithms and/or formats with rate & frequency as requested the end user. The NDDS-300 is developed by Berkin Defense Engineering by optimizing all data distribution challenges, providing the best speed and reliability features in its class.

Electrical Specifications

Supply	115/230Vac 50/60 Hz, and/or 24 VDC
Power	100 VA

Interfaces (basic conf.)

	40x Serial I/O
	2x GBit Ethernet port
	1x USB 3.0
	4x Relay Output
	1 x Quadruple Relay Port
	Synchro and other Ports (Configurable)

Physical Specifications

Dimensions	23x48x22,5 cm
Weight	21 kg ±1,6

Compatibility

Environmental	MIL-STD-810
EMI/EMC	MIL-STD-461
Vibrations	DOD-STD-167-1
Shock	MIL-S-901D
Enclosure	MIL-STD-108
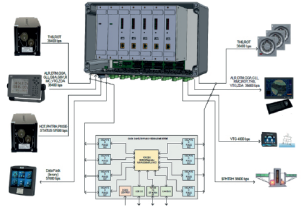
NDDS INTERNAL BYPASS UNIT
USAGE AS A BUILT-IN BYPASS BACKUP UNIT WITH GVDS

Model Number	NDDS-300
Stock code	7025-DA-029-8614

BYPASS UNIT

The bypass unit is designed for uninterrupted communication in harsh environments. It has 8 programmable I/O. In the event of a NDDS failure during any power failure, it ensures that the predetermined critical 8 systems continue to transfer data smoothly in the same manner.

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