

**FLEETSTAR**

# PLATFORM DATA DISTRIBUTION SYSTEM (PDDS)



 **HAVELSAN**



## PLATFORM DATA DISTRIBUTION SYSTEM

The HAVELSAN Platform Data Distribution System (PDDS) is a service provider system designed to collect platform data and distribute it to all subsystems that require it to ensure the safety and efficiency of ship operations. With a robust and scalable system architecture, PDDS offers redundancy and fault tolerance to maintain service continuity. Its unique features and design make it the heart of the ship, enabling real-time data sharing and decision-making. Since 2009, it has been successfully serving as the preferred data distribution system for the Turkish Navy and many foreign naval forces, enhancing operational capabilities and mission effectiveness.

### KEY FEATURES

- ▶ Data Collection and Labeling from Ship Sensors and Systems
- ▶ Data Distribution to Multiple Receivers in Different Formats, Interfaces and Protocols
- ▶ Data Synchronization Between All Systems
- ▶ Data Prioritization and Configuration
- ▶ Data Display, Recording and Analysis
- ▶ Data Control and Filtering
- ▶ Data Simulation
- ▶ Redundancy
- ▶ Reliable, Robust, 24/7 Operation
- ▶ Smart, Flexible, Modular, Easily Expandable and Scalable
- ▶ High Speed and Performance

### DATA INPUT OPTIONS

- ▶ INS, Gyro, GNSS, Magnetic Compass, Doppler-LOG, Echo Sounder, Meteorological Sensors, Ship Engine Systems etc.

### DATA OUTPUT OPTIONS

- ▶ Combat Management Systems, Weapons, Control Systems, Various Types of Data Displays, Data Loggers, Tactical Sensors (Radar, EOD, AKR etc.), Communication Systems, AIS/WAIS, ECDIS/WCEDIS, Ship Auxiliary Systems (Helicopter ASIST, D/G) etc.

### CABINET OPTIONS

- ▶ Maxi Cabinet: 28U Device Capacity
- ▶ Midi Cabinet: 25U Device Capacity
- ▶ Mini Cabinet: 14U Device Capacity
- ▶ Micro Cabinet: 8U Device Capacity

### SUB-COMPONENTS

- ▶ Main Computer Subrack
- ▶ Single Board Computer Board
- ▶ RS-422
- ▶ Ethernet
- ▶ Time Signal
- ▶ IO Boards
- ▶ Ethernet Switches
- ▶ Electrical Insulation and Distribution Unit
- ▶ SYNCHRO D/S Converter
- ▶ Time System and Time Distribution Units
- ▶ Cabinet Computer and Uninterruptible Power Supply

### INTERFACE OPTIONS

- ▶ Ethernet (Expandable Up To 72 Ports)
- ▶ Fiber Optic
- ▶ RS-422 (Expandable Up To 64 Ports), RS232/485
- ▶ Synchro (Expandable Up To 42 Channels, Fine/Coarse)
- ▶ HDLC Serial Data, SDLC Serial Data
- ▶ STANAG, HQ/1PPS, IRIG-B, NTP V3, SNTP

### ENVIRONMENTAL AND ELECTROMAGNETIC CONDITIONS

- ▶ MIL-STD-810F (Temperature, Humidity, Shock, Vibration etc.)
- ▶ MIL-STD-167/1 (Vibration)
- ▶ MIL-STD-1474 (Sound and Structural Noise)
- ▶ MIL-STD-461 (EMI-EMC)
- ▶ MIL-STD-1310 (Magnetic Field and Safety)
- ▶ MIL-STD-1399 (Electric Power and Alternating Current)
- ▶ NATO-STANAG 1008 (Ship Electrical Power Characteristics)

