



# Navigation & Tactical Data Distribution Unit (NavTac DDU)

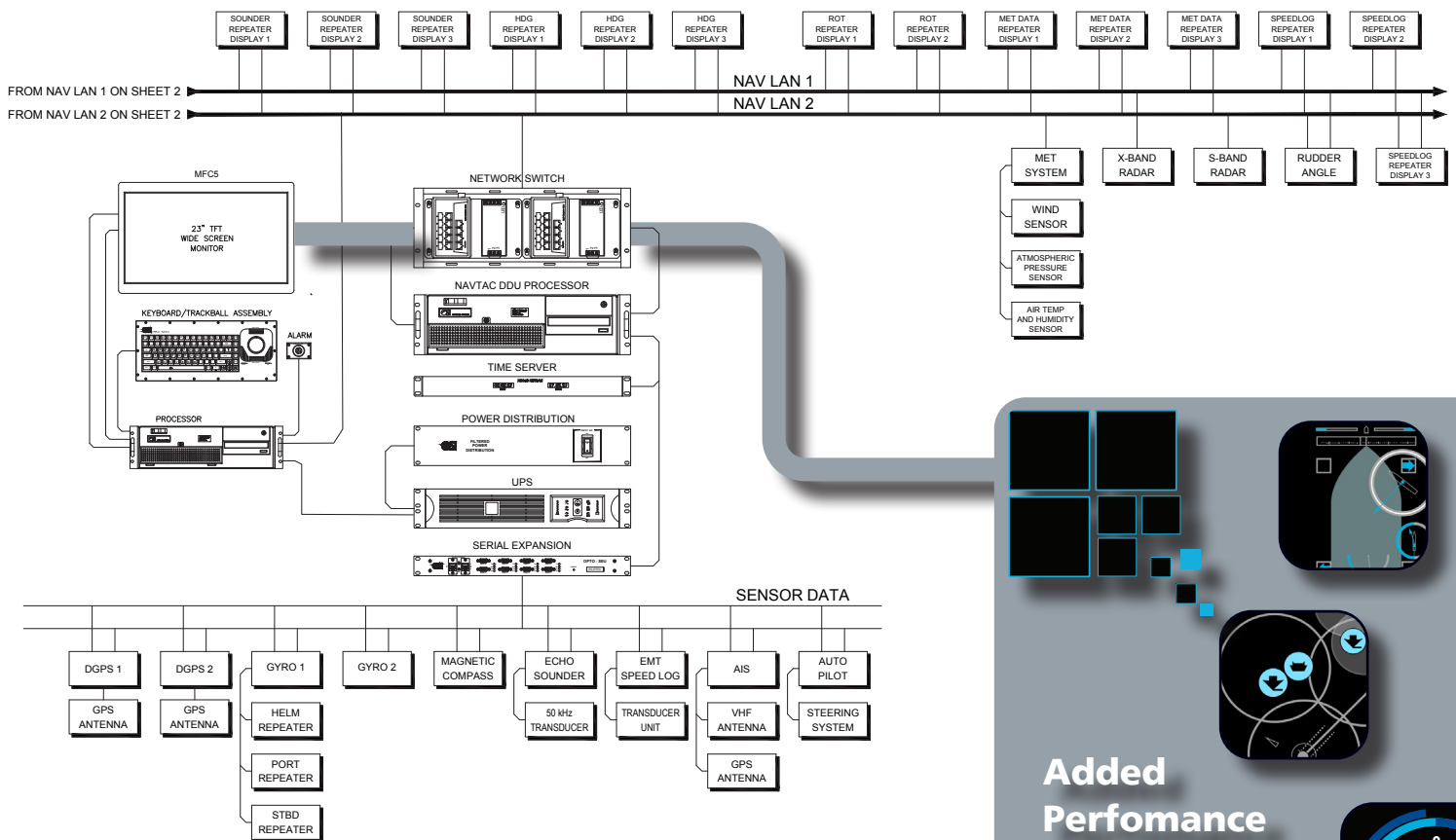
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OSI's NavTac DDU, a sensor data distribution system designed for naval vessels

With a history spanning over 20 years, OSI delivers advanced navigation and command and control systems to address the growing need for enhanced real-time situational awareness for military and security applications. OSI solutions include ECPINS®, ECPINS Warship, ECPINS Submarine, T-ACT (Tactical - Asset Control & Tracking), and INTS (Integrated Navigation & Tactical System).

OSI's NavTac DDU is a sensor data distribution system for naval vessels. The system is a plug-in based open architecture system, supporting data routing, distribution, data logging and message translation. Data can be routed from any input interface to one or more output interfaces, in any combination. Consoles become multifunctional, providing a variety of displays in one easy click.



# NavTac DDU Built for the Military

**Added Performance With OSI ECPINS Software Suite of Modules**

## Scalable Hardware

- Marine-grade or MIL-SPEC COTS hardware
- IMO certified as part of OSI's ECDIS and Radar solutions
- either single or dual NavTac DDU configurations available
- up to 32 serial ports
- up to 4 separate networks with unlimited clients
- Integrated Time Server
- Analog interface option
- Marine-grade UPS option

## Interfaces

- Data Rates up to 100 Hz supported
- Latency and Jitter less than 1 ms
- Hardware Interfaces supported:
  - RS422/RS232
  - Ethernet
    - TCP/IP client or server
    - UDP, UDP Broadcast, UDP Multicast
  - Analog
    - Synchro
    - Stepper
    - Pulse
- Data Protocols supported
  - NMEA 0183 / IEC 61162
  - Binary

## System Configuration

- Time Server
  - NTP server
  - IRIG A, B or E option
  - PPS output option
- Headless Configuration
  - Software runs on Windows Embedded
  - No mouse, keyboard or display needed

## Open Architecture

- Sensor Data Translation performed by "plug-ins" which can be written by OSI or the customer - does not require changes to core software to add new interfaces
- Supports translation of any input data format to any output data format.

## Web Administration

- Administration is via web interface for authenticated users
- logging of all incoming and outgoing data
- real-time diagnostics display
- configuration of sensor interfaces

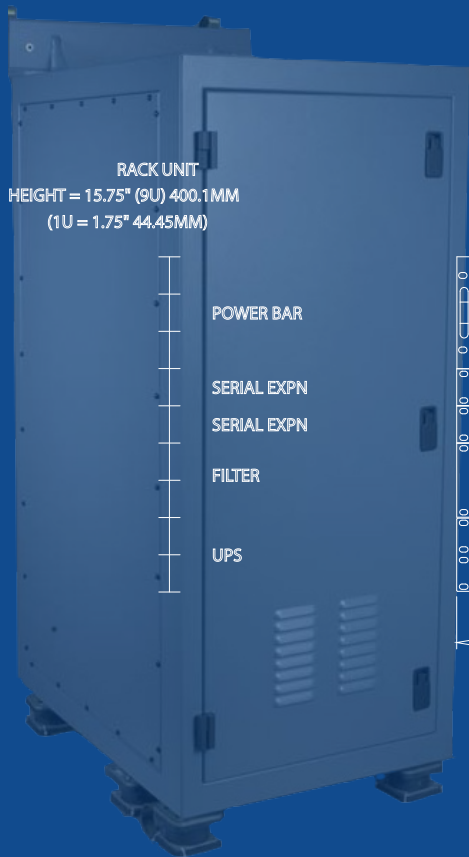


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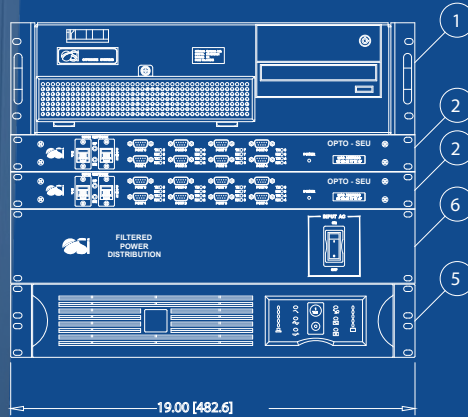
ECPINS® – Electronic Chart Precise Integrated Navigation System ECPINS-W and ECPINS-W Sub are International Maritime Organization (IMO) approved Electronic Chart Display and Information Systems (ECDIS) that surpasses the NATO WECDIS STANAG 4564 standard.



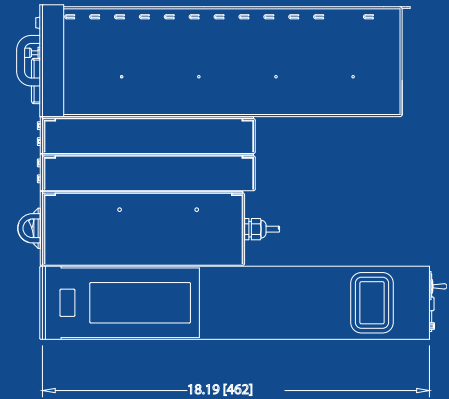
The NavTac DDU is based on OSI's ECPINS Message Translator (EMT) product in service on over 100 warships. Introduced in 2011, OSI has sold 34 NavTac DDU systems to 4 allied navies.



FRONT VIEW



SIDE VIEW



Contact OSI for systems engineering and customized Integrated Navigation & Tactical System (INTS) solutions and IPMS intergration.

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