Success Stories

Navigating Success at Sea

Winmate Marine PPC and Box PC Enhance Dynamic Positioning System (DPS) Performance.

Background

Dynamic Positioning System (DPS) stands as a cornerstone in modern maritime technology, offering precise control over a vessel's position and heading amidst varying environmental forces. Leveraging Winmate Marine PPC and Box PC solutions, maritime industries unlock unprecedented efficiency and accuracy in DPS applications across a spectrum of marine endeavors.

Main Challenges

The seamless operation of DPS hinges on overcoming multifaceted challenges, including:

- **Environmental Forces:** Counteracting external factors such as wind, waves, and ocean currents demands a robust control system capable of real-time adjustments to maintain vessel position and heading stability.

- **Precision Requirements:** The dynamic nature of marine operations necessitates precise calculations and continuous monitoring to ensure the vessel remains within specified parameters.

Core Products

- [W24IH3S-MRA1FP](#) - 24-inch Intel® Core™ i5-5350U Flat PCAP ECDIS Marine Panel PC
- [I330EAC-ITW-6L](#) - Intel® Core™ i5-1135G7 Marine Computer

Why Winmate

Winmate Marine PPC and Box PC solutions offer a comprehensive suite of features tailored to optimize DPS performance:

- **Closed-Loop Control:** Winmate Marine PPC and Box PC systems serve as the nerve center of DPS, providing closed-loop control capabilities essential for accurately calculating and adjusting propellant forces to counteract environmental influences.

- **Real-Time Monitoring:** Equipped with advanced monitoring and analysis tools, Winmate solutions continuously track vessel position deviation and analyze environmental forces to facilitate prompt adjustments and maintain desired position and heading.

- **Functionality:** Winmate Marine PPC and Box PC solutions enable the seamless integration of DPS functionalities, including maintaining specified location, targeting, automatic bow position search, turning point tracking, ROV automatic tracking, and more.
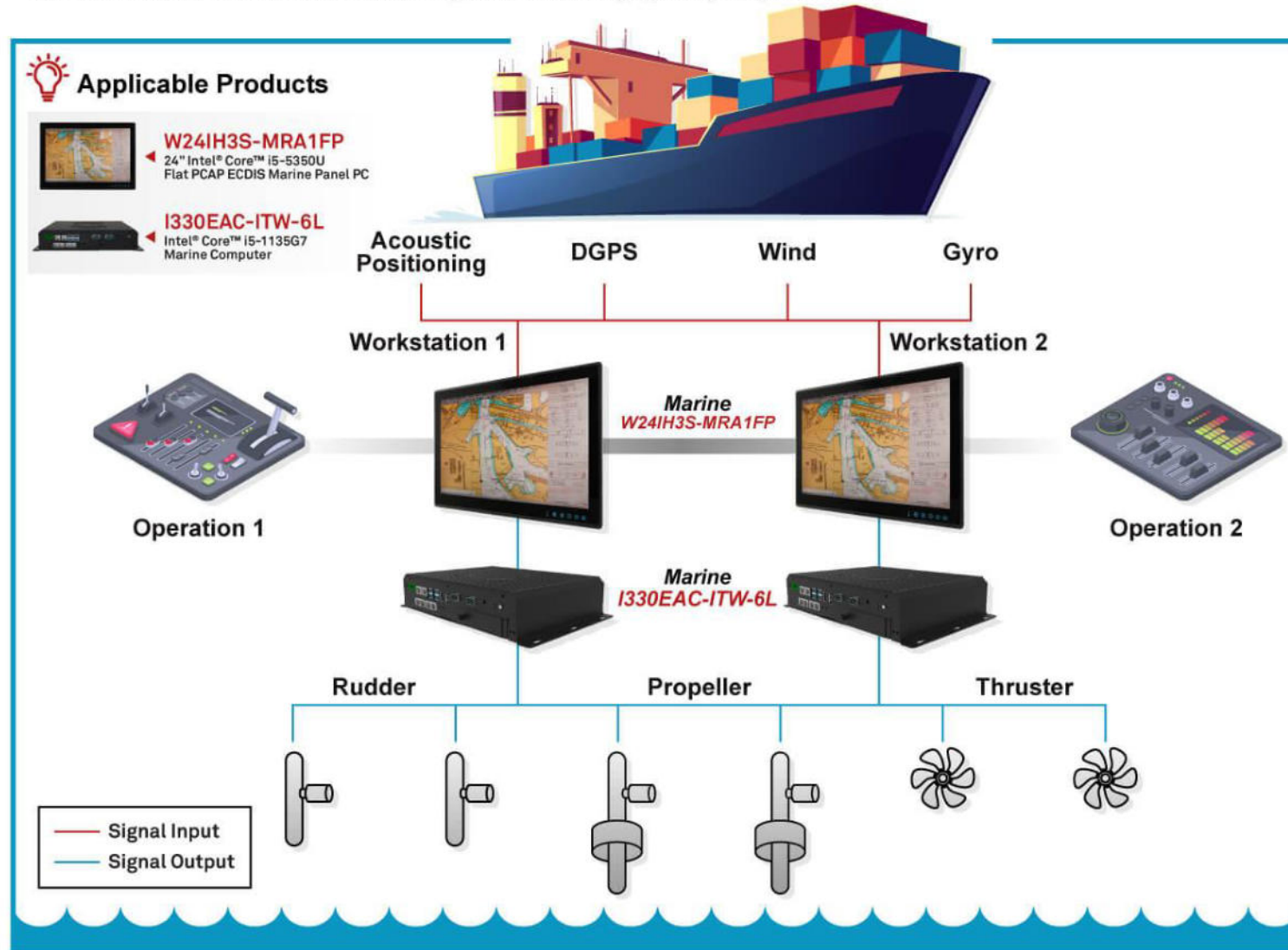
By integrating Winmate Marine PPC and Box PC solutions into their DPS systems, maritime industries have achieved unparalleled success in a myriad of applications, including subsea engineering, underwater salvage, marine resource survey, and deep-sea support operations. The reliability, precision, and versatility offered by Winmate solutions have revolutionized maritime technology, empowering industries to navigate complex marine environments with confidence and efficiency.

Winmate Marine PPC and Box PC solutions stand as catalysts for innovation in maritime technology, enabling the seamless operation of Dynamic Positioning Systems across diverse marine applications. By leveraging Winmate's advanced features and robust design, maritime industries elevate their performance, reliability, and safety, ushering in a new era of success at sea.

Application Diagram

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Applicable Products

W24IH3S-MRA1FP
24" Intel® Core™ i5-5350U
Flat PCAP ECDIS Marine Panel PC

I330EAC-ITW-6L
Intel® Core™ i5-1135G7
Marine Computer

Acoustic Positioning   DGPS   Wind   Gyro

Workstation 1   Workstation 2

Marine
W24IH3S-MRA1FP

Operation 1   Operation 2

Marine
I330EAC-ITW-6L

Rudder   Propeller   Thruster

Signal Input
Signal Output

Related Products

Winmate **W24IH3S-MRA1FP**

- 24" Intel® Core™ i5-5350U Flat PCAP ECDIS Marine Panel PC
- 1920 x 1080 resolution with projective capacitive multi-touch screen
- Edge-to-edge narrow bezel design and fanless cooling system
- Color calibrated for ECDIS compliance (Optional)
- Capacitive touch keys for quick function access and display control (Support ECDIS DAY, DUSK, and NIGHT mode switching)
- Optional 4 x COM port (NMEA 0183 protocol) 422/485 switchable via software
- Meet the requirements of Industrial marine standards, including IEC60945 4th Edition, DNVGL-CG-0339, IACS E10
- Support capacitive touch key lock / touchscreen lock function

Winmate **I330EAC-ITW-6L**

- Intel® Core™ i5-1135G7 Marine Computer
- Intel® Tiger Lake Core™ i5-1135G7, Marine computer
- RAM 4G DDR4L (Up to 32G)
- Removable 2.5" SSD drive bay
- 6 x LAN port
- Isolation Power Protection 1.5KV
- DNVGL-CG-0339, IEC60945 Certificate