



## **About Winmate**

Headquartered in Taipei, Taiwan, Winmate Inc. has been dedicated to researching, developing and manufacturing the latest in industrial displays and rugged devices for 20 years.

Today, Winmate creates intelligent systems that advance the Internet of Things (IoT) and enterprise-level communications across the globe for industrial and high-tech clients. High standards for technology and quality control have established Winmate as a leader for the last 20 years and set the standard for continued excellence.

## Value-added partner

#### Strong Rugged Design Team

To Meet Environmental Challenges (EE, ME)

#### **Talented Software Team**

To Enable IoT & Industrial Application

#### **System Integration Experience**

For Rugged & Industrial Mobile Devices

## **Customized solutions**

Years of experience allow Winmate to offer customized solutions for different applications. From product design to creating accessories, our engineering team designs and supports your needs throughout the whole system integration process.

CUSTOMIZED INTERFACES	
CUSTOM OS IMAGE	
CUSTOM BIOS	
ENCLOSURE DESIGN	
PERIPHERALS AND OPTIONS	
CUSTOM-DESIGNED ACCESSORIES	

## Marine

### **Overview**

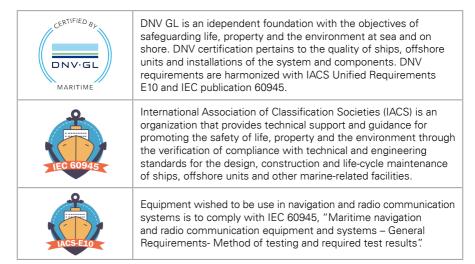
Winmate understands the needs of the marine industry and provides solutions to the unique challenges that the industry faces.

- **Ruggedness:** Winmate reliability tests ensure optimal performance in harsh environments, including exposure to humidity, shock and vibration.
- Panel Options: Transflective screen or a high brightness display.
- Viewability: Numerous combinations of display and touch technologies as well
  as backlight intensities help enable sunlight viewability.
- Design and Electronics: Powder coated aluminum housings feature anti-corrosion protection.

## **Technology**

#### Certificate

Winmate marine products are built and tested according to the DNV 2.4 Standard, IEC60945 and IACS-E10.



### **ECDIS Color Calibration**

Winmate Marine Displays and Panel PCs can be adjusted to day, dusk or night mode to accommodate any lighting situation. Color settings are calibrated at the factory for the accurate color reproduction according to the IEC 61174 ECDIS Standard.





Color Calibration AR Glass

### **Application**



## Automated Identification System

"COMPLY WITH MARINE INDUSTRY STANDARDS IEC 62376 & RTCM 10900.5."

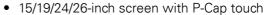
AIS solution for yacht with 19-inch marine panel PC features multitouch screen and waterproof front panel.

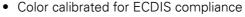
# Marine Display **ECDIS Series**



COLOR CALIBRATION

FOR ECDIS COMPLIANCE.









HDMI, VGA, Display Port, DVI-D

Capacitive touch keys for display control

Day, dusk, and night mode

0%~100% backlight brightness dimming control

Panel mount, VESA mount

Vibration resistant DNV 2.4 (Class A)

Wide power input 9-36V DC with isolation

Front IP66 waterproof and dustproof

Wide operating temperature -15~55°C

### **Accessories**

#### Standard

AC Adapter Power Cord 3pin Terminal Block HDMI Cable VGA Cable Display Port Cable RS232 Cable DVI Cable

## **Marine Panel PC**

## **ECDIS Series**



# PROCESSING POWER AND USER-FRIENDLY INTERFACE.

- 15/19/24/26-inch screen with P-Cap touch
- Intel<sup>®</sup> Core<sup>™</sup> i5-5250U
- Windows 10/8/7
- IEC 60945, DNVGL-CG-0339, IACS E10

## RS-232/422/485, RS-232, two USB 3.0

Capacitive touch keys for display control

Day, dusk, and night mode

0%~100% backlight brightness dimming control

Panel mount, VESA mount

Vibration resistant DNV 2.4 (Class A)

Wide power input 9~36V DC with isolation

Front IP66 waterproof and dustproof

Wide operating temperature -15~55°C

#### **Accessories**

#### Standard

AC Adapter Power Cord 3pin Terminal Block Black Screw Bolts

#### Optional

Four 5-pin Terminal Block 3.81(Phoenix Type)

## **Custom configuration**





Color Calibration AR Glass





NMEA 0183

DIDO

## **Application**



## **Bridge System**

"ECDIS COMPLIANCE TO REPRODUCE ACCURATE CHART DISPLAY"

Marine panel PC featuring a flat edge-to-edge surface and projected capacitive multitouch screen. Large screen and responsive touch allow for intuitive user controls of the bridge system.





**3**G

GPS

Wi-Fi

3G

## **Application**



# Yacht Navigation System

"COMPACT WATERPROOF DESIGN AND WIRELESS CONNECTIVITY."

10.1-inch rugged marine
HMI was installed in a
space-restricted yacht as a
part of navigation system. The
customer installed GPS and
Wi-Fi for wireless connectivity.

# Marine Panel PC W10IB3S-MRH2



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## **FITS IN CONFINED SPACES.**

"

- 10.1-inch, 1280 x 800 with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Windows 10/8/7
- IEC 60945 Test Report



4 GB DDR3L

64 GB mSATA SSD

Two RS-422, USB 2.0

Gigabit LAN

Panel mount, VESA mount

Vibration resistant DNV 2.4 (Class A)

Wide power input 9~36V DC with isolation

Front IP65 waterproof and dustproof

Wide operating temperature -15~55°C

#### Accessories

External Wi-Fi Antenna

#### Standard

AC Adapter	M12 Power Cable	3-pin Terminal Block
M12 USB/LAN Cable	M12 RS-422 Cable	I/O Protective Caps
Optional		

External WWAN Antenna

## **Marine Display VR Knob Series**



# **BRIGHTNESS CONTROL** WITH DIMMING KNOB. ..

- 10.4~24-inch screen with resistive touch
- IEC 60945, DNV 2.4, IACS-E10 certified



RGB, composite video

VGA, S-Video, DVI-D

PIP function

RAM mount, VESA mount

Vibration, shock resistant DNV 2.4 (Class A)

Power input 24V DC with isolation

Front IP66 waterproof and dustproof

Wide operating temperature -15~55°C

#### Accessories

#### Standard DVI Cable VGA Cable RS232 Cable S-Video Cable Composite Cable Screw bolts **Optional** Power Cord

## **Custom configuration**





Resistive Touch

Touch





ΔR Glass Mounting Bracket

## **Application**



## **Navigation Simulator**

"FAST DEPLOYMENT WITH **EXHISTING NAVIGATION** SYSTEM."

Winmate 24-inch marine monitor with resistive touch was installed in a navigation system of a marine training center. Transmission of RGB and composite video signal was required to integrate with existing systems.







Memory

AR Glass Resistive Touch



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Mounting RS-422/ Bracket 485

## **Application**



## Boat Command Center

"GREAT VIZUALIZATION. OF THE DASHBOARD."

The marine panel PC installed in a boat command center allows you to view all of your boat's vital signs directly from your computer. Customized dimming setting increase the visibility in dusk or night time.

# **VR Knob Series**



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## **CORROSION RESISTANT.**

"

- 10.4~24-inch screen with resistive touch
- Intel® Dual Core Atom N2600
- Intel® Core i7-3517UE
- Windows 10/8/7
- IEC 60945, DNV 2.4, IACS-E10 certified

#### 4 GB SODIMM DDR3

\/GA

Two USB 2.0

Two RS-232, RS-232/422/485

RAM mount, VESA mount

Vibration, shock resistant DNV 2.4 (Class A)

Power input 9-36V DC with ignition

Front IP65 waterproof and dustproof

Wide operating temperature -15~55°C

#### **Accessories**

#### Standard

Screw bolts

#### Optional

Power Cord

## Marine EAC Box PC 1330EAC-IKW





## **44** ABUNDANT INTERFACES AND RUGGED CONSTRUCTION.

- Intel® Core™ i5-7200U Kaby Lake
- Windows 10
- IEC 60945 Test Report



64 GB mSATA SSD

Four USB 3.0

HDMI, VGA, DVI output

RS-232/422/485

Two LAN ports

Aluminum housing

Power input 9~36V DC with 1.5KV isolation

Vibration, shock resistant DNV 2.4 (Class A)

Wide operating temperature -15~55°C

#### **Accessories**

#### Standard

AC Adapter Power Cord

## **Custom configuration**





Memory 2nd Storage





NMFA 0183

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## **Application**



## **Bridge System**

"FFFFCTIVE MARINE DEVICES COMMUNICATION."

High-performance embedded system that feature an NMEA 0183 interface and digital input/ output for effective marine device communication.

4 GB

128 GB

2.5 SSD

Memory

Storage 2nd Storage

## **Application**



## **Engine Room**

"SURVIVE DUST, VIBRATION AND HIGH TEMPERATURE."

Electronic components installed in an engine room must be able to survive in extreme conditions. Our fanless EAC box PC feature efficient heat dissipation and ensures reliable operation in engine rooms with vibration resistance. An Ethernet switch allows working in a single network.

# Marine EAC Box PC 1330EAC-ID3





# DNV-CERTIFIED EMBEDDED SOLUTION.

- Intel Atom<sup>®</sup> D2550
- Windows 10/8/7
- IEC 60945, DNV 2.4, IACS-E10



32GB mSATA SSD

Two USB 2.0

VGA output

RS-232/422/485

Two LAN ports

8 Channel GPIO

PS/2 interface for keyboard and mouse

Aluminum housing

Power input 9~36V DC with 1.5KV isolation

Vibration, shock resistant DNV 2.4 (Class A)

Wide operating temperature -15~55°C

#### Accessories

#### Standard

AC Adapter

PS/2 Y Cable







#### Contact Us



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