INTERMARINE ELECTRONICS S.A.

ROBUST/STABLE/VERSATILE/POWERFUL

IME 7000 FANLESS NavStation MARINE PC



Designed for Marine and Industrial computing Applications



Engineered for Excellence in Marine and Offshore Environments

The **IME 7000 Fanless NavStation Marine PC** is engineering to meet the demanding requirements of the marine and offshore industries. Combining advanced technology with rugged construction, this high-performance computing solution delivers exceptional reliability, versatility, and long-lasting durability for critical maritime and industrial applications.

Key Features & Benefits

Optimized for a Wide Range of Applications

The IME 7000 *NavStation* is ideally suited for diverse maritime operations, including e-navigation, passage planning, vessel monitoring, chart management, route creation, data logging, and web communication. Its flexible design and advanced capabilities make it an indispensable asset for both maritime and industrial sectors.





Exceptional Performance and Advanced Capabilities

Next-Generation Processing Power: The IME 7000 is powered by the Intel® Core™ i7 13th Generation processor, providing industry-leading performance with clock speeds up to 5.2 GHz. Its 10-core architecture and integrated Intel® Iris® Xe Graphics ensure superior processing power for mission-critical applications in demanding marine environments.

Comprehensive Connectivity Options:

- **RS232/RS422/RS485/NMEA Full Duplex Ports:** Equipped with six versatile communication ports (optional optically isolated converters compliant with IMO regulations), the IME 7000 ensures seamless connectivity with critical sensors like GPS, gyrocompasses, speed logs, and more. This makes it an ideal choice for passage planning, route creation, and e-navigation systems.

- **GPIO Flexibility and adaptability:** (general-purpose input/output) port handles both incoming and outgoing digital signals.
- **Optional Wireless Communication:** Wi-Fi, Bluetooth, and LTE 5G capabilities ensure continuous connectivity, providing access to real-time data and remote systems.
- **Memory & Storage:** Standard with 8GB of onboard memory, expandable up to 64GB, the IME 7000 is capable of handling memory-intensive applications. Storage options include 1 x 2.5" SSD/HDD and 1 x mSATA III SSD for fast, reliable data access and long-term storage with **O**ne **K**ey **R**ecovery.
- **USB & Video Support:** Six USB ports offer compatibility with a wide range of peripherals, while multi-display support (up to 3 screens) enables smooth handling of demanding 4K visual applications.

Designed for Marine Environments

- **Built for Rugged Durability:** The IME 7000 features a high-strength aluminum alloy body that is compact, lightweight, and built to withstand the harshest marine conditions. Its rugged construction ensures resistance to shocks, vibrations, dust, and saltwater moisture exposure, all while maintaining optimal performance.
- **Designed for 24/7 All-Weather Operation:** The fanless design ensures quiet, efficient operation without moving parts, reducing the risk of mechanical failure and minimizing maintenance requirements. The IME 7000 is optimized for operation in extreme temperatures, with a robust heat dissipation system to ensure continuous, reliable performance in demanding conditions.

Elevate Your Maritime Operations

- The **IME 7000 Fanless Marine PC** : Whether you're navigating the open seas or managing complex industrial systems, the IME 7000 delivers the performance, durability, and reliability you need at an affordable price.
- **Compliant with the Highest Marine Standards** IEC-60945 & IACS 10, IMO A.694(17), A,813(19), Liberia Nav-001.rev-02-22 for optimal safety, performance, and longevity.

IME-7000 specifications

	260mm（L）*208mm（W）*77mm（H）	
CPU	Intel i7, 13 gen	Support Intel i7 13 generation CPU
Power	1*DC_IN	The inner diameter of the DC head is 2.5MM and supports 12V/ The maximum power consumption is 55W, 12V7A
	1*DC_	
	1*External AC power supply IN	90 – 260 VAC
Memory	2*SODIMM slot	2*NB-DDR4, support 2133/2400/2666/2933/3200, max 64GB
Network function	2*RJ45_LAN port	Single-network support Intel I219V Gigabit network adapters, dual-network support Intel I219V+Realtek 8111H. Support network wake up, PXE function ;
	1*M2-WIFI port	Supports Key-E interface WiFi/ Bluetooth module
	1*4G/5G-M.2 port	Supports Key-B interface M.2 5G (3052/3042) module or M.2 4G (3042) module
Display function	Intel（R） Iris 3D Graphics Hypercore graphics card	Support single display, double display replication, double display extension, three display replication, three display extension, four display replication, four display extension, double display under the SHELL;

	1*HDMI2.0 port	Support 4K resolution 4096/3840*2160@60Hz
	1*HDMI_CON Pin	Support 4K resolution 4096/3840*2160@30Hz （16Pin，2*8Pin，2.0mm）
	1*VGA DB15 port	Support 4K resolution 1920*1080@60Hz
	The VGA port supports DP ports	
	1*LVDS1/EDP2 Pin	LVDS1 support 2K60Hz；EDP2support 4K60Hz （30Pin，2*15Pin，2.0mm）
	1*EDP1 Pin	Support 4K resolution 4096/3840*2160@60Hz （30Pin，2*15Pin，2.0mm）
	1*LVDS_PWR1 Pin	LVDS1/EDP2 operating voltage control pin （6Pin，2*3Pin，2.0mm）
	1*EDP_PWR Pin	EDP1 Working voltage control pin （6Pin，2*3Pin，2.0mm）
	1*INVERT Pin	LVDS backlight control pins （6Pin，1*6Pin，2.0mm）
	By default, LVDS1 is supported, EDP2 is optional, and pins are shared	
USB function	2*USB3.2 port	Rear standard USB3.2 Gen1 interface, the maximum transmission broadband is 5Gbps
	2*USB2.0 port	The rear standard USB2.0 interface, the maximum transmission broadband of 480Mbps
	1*F_USB1 Pin	Front USB2.0 pins, a set of 2*USB2.0 （9Pin，2*5Pin，2.54mm）
	1*F_USB2 Pin	Front USB2.0 pins, a set of 2*USB2.0 （9Pin，2*5Pin，2.54mm）
Sound function	Integrated Realtek ALC897/662 HD digital audio decoder, 6-channel hi-fi audio controller;	
	1*LINE_OUT port	Audio output supported (green)
	1*MIC_IN port	Support microphone input (red)
	1*INT_SPK Pin	Support 8 OH5 watt speaker output (power amplifier) （4Pin，1*4Pin，2.0mm）
	1*F_AUDIO Pin	Standard audio pin （9Pin，2*5Pin，2.54mm）
Hard disk function	1*M.2-SATA/PCIE port	Supports Key-M port M.2 2280/2242 hard disks. Supports SATA by default, but supports NVME
	1*SATA1 port	Standard SATA hard disk interface, supports SATA 3.0
	1*SATA_PWR Pin	The hard disk power supply pin can supply 5V or 12V （4Pin，1*4Pin，2.54mm）
Switching function	1*F_PANEL Pin	Switch, power indicator, hard disk indicator, restart pin，2*5Pin，2.54mm）
	1*AUTO_SW Pin	Hardware controls power-on and power-on pins （3Pin，1*3Pin，2.0mm）
Other I/O	1*COM1 Pin	Support standard RS232/RS422/RS485 Optional (BIOS Settings) （9Pin，2*5Pin，2.54mm）.(Optional Opt-isolation)
	1*COM2 Pin	Only standard RS232 is supported 9Pin，2*5Pin，2.54mm）-(Optional RS232/RS422/RS485 with optical-isolation.)
	1*COM3~6 Pin	Standard RS232 is supported. (Optional RS232/RS422/RS485 with optical-isolation.)
	1*JCOM1 Pin	COM1 Set pin 9 to 0V/5V/12V （6Pin，2*3Pin，2.0mm）
	1*MSIM1 slot	Support SIM card, SIM card is required for 5G/4G
	1*CLR_CMOS Pin	Mainboard reset and discharge pins （3Pin，1*3Pin，2.0mm）
	1*CPU_FAN Pin	CPU fan pins Support temperature control（4Pin，1*4Pin，1.25mm）
	1*J_GPIO Pin	GPIO control pins （10Pin，2*5Pin，2.0mm）
Operating environment	Operating temperature: -20℃~65℃; Operating humidity: 5%~95% relative humidity, no condensation	
BIOS	AMI BIOS Supports power-on, timed startup, and intelligent identification of remote switching devices	
Watch Dog	Watchdog programming, support hardware reset function (256 level, 0~255 seconds)	
Os	Support Windows 11， Windows 10， LINUX etc.	

Specifications may changed without noice

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