

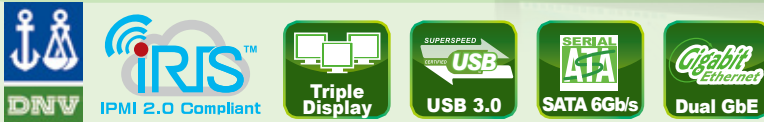
# Marine Panel PC Series

**New**

The maritime field faces critical environmental challenges, making reliable and rugged systems essential. IEI provides maritime professionals and marine-grade computers and panel PCs that use leading technologies and reliable designs which are perfect for applications on the dock, on the open deck, or in the control room or bridge.



- 19" and 24" Fanless Panel PC with 4th Generation Intel® Core™ i5 Dual-core Processor
- -15°C ~ +55°C Wide Temperature and IP66 Protection with Flat-bezel Projected Capacitive Touchscreen
- Excellent Visual Performance
  - Three independent displays
  - Full OSD function configuration
  - 0%~100% full range dimming
  - 178°/178° wide viewing angles
  - Optical bonding improves visibility under bright light (optional)
- Isolation Protection
  - RS-232/422/485 isolated serial ports
  - Isolated 18V ~ 36V DC input
  - 2 x Isolated CAN-bus 2.0B
- iRIS Remote Management Module



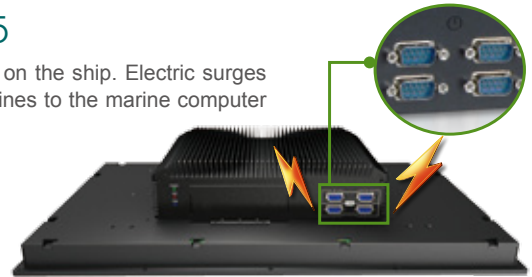
## Multiple Isolated Ports for Comprehensive Protection against Electrical Surges

Ground loop and electric surges are common in the marine applications of electronic products, due to the dense placement of devices. These stray electrical signals can cause equipment damage or malfunction.

### ■ 2.5 kV Isolation Protection on the RS-232/422/485

IEI marine computer is protected from any stray electrical signals from other devices on the ship. Electric surges that were generated from other electronic devices which often passed through serial lines to the marine computer can cause severe damage and malfunction to the computers.

### ■ Isolated 18~36V DC Power 2250VDC Input to Output Basic Insulation



### ■ Two independent CAN 2.0B channels with 2.5 kV Isolation Protection

CAN 2.0B is a kind of marine electronics data network for communication between marine electronic devices such as chart plotters, navigation instruments, GPS receivers, etc.



Multiple serial ports for connecting devices and sensors

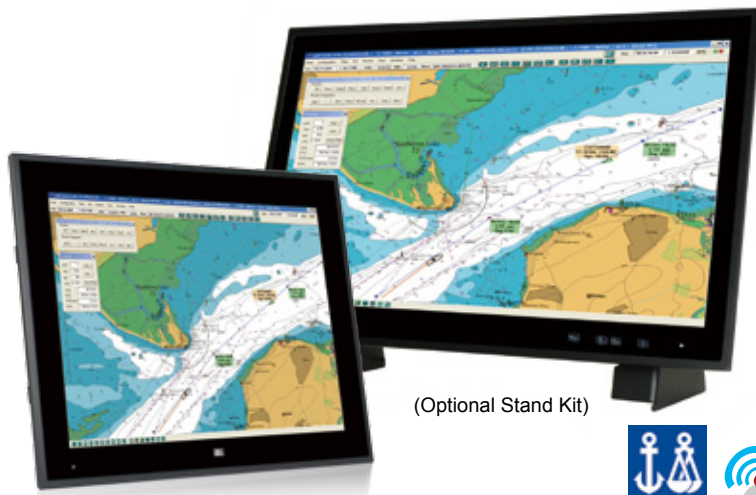
**S24A-QM87**

Intel® Core™ i5 Dual-core Processor



**S19A-QM87**

Intel® Core™ i5 Dual-core Processor



(Optional Stand Kit)

**Features**

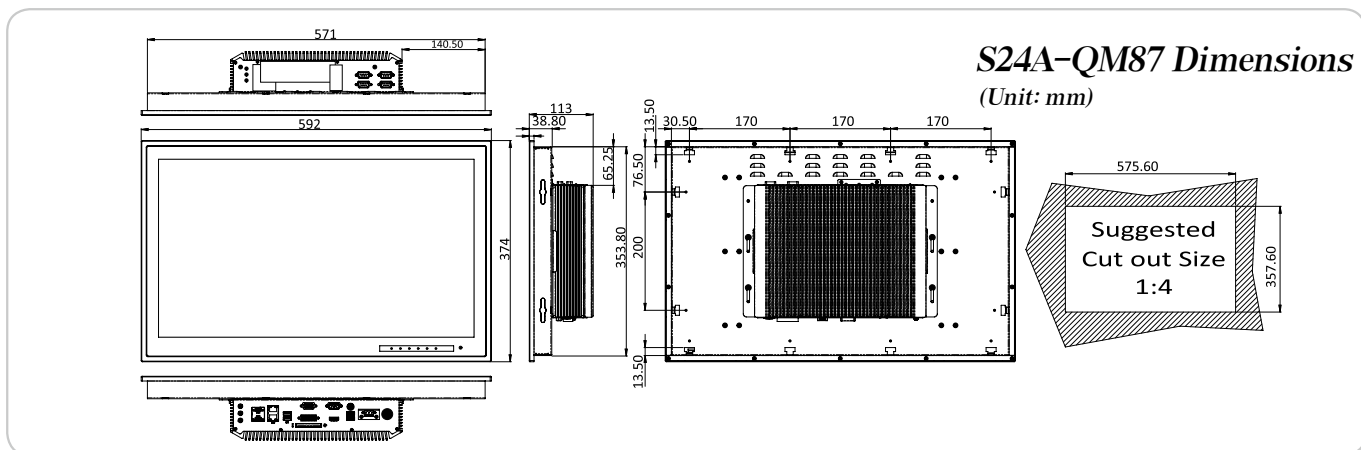
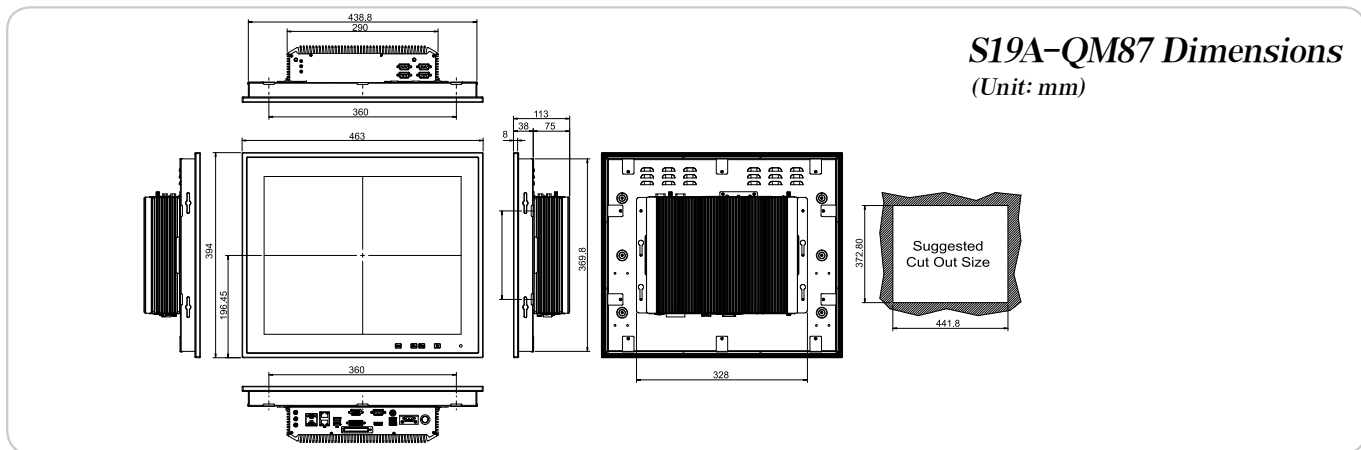
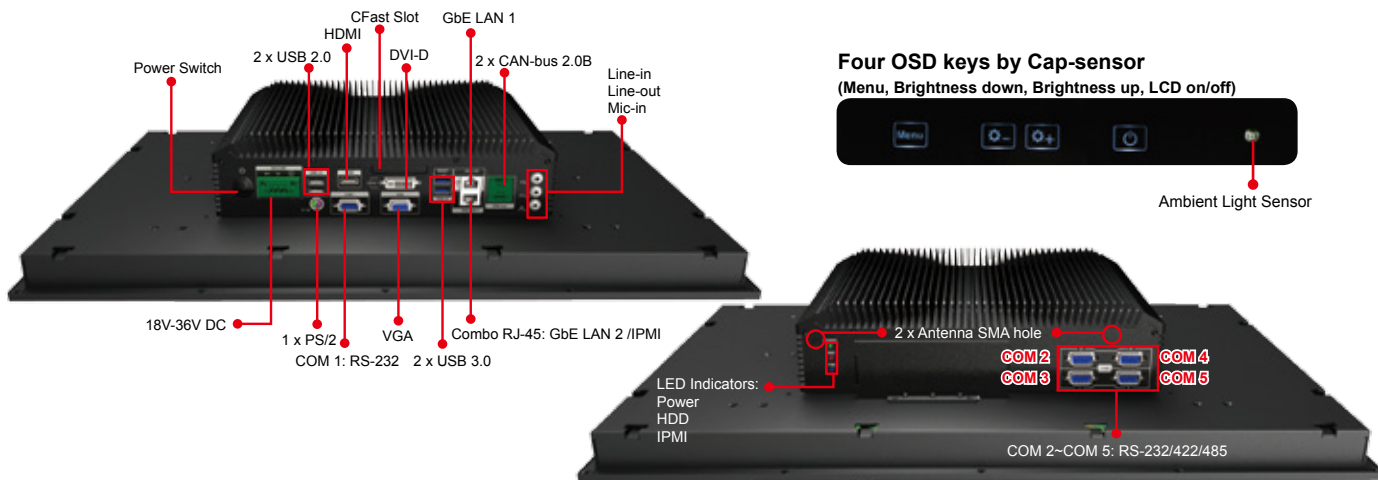


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**Specifications**

Model	Coming Soon	S19A-QM87	New	S24A-QM87
LCD	LCD Size	19"		24"
	Panel Type	PMVA		AMVA
	Max. Resolution	1280 x 1024 (5:4)		1920 x 1080 (16:9)
	Contrast Ratio	2000 : 1		5000 : 1
	Brightness (cd/m²)	300		300
	LCD Color	16.7M		16.7M
	Pixel Pitch (um)	294 x 294		276.75 x 276.75
	Viewing Angles (H-V)	178° / 178°		178° / 178°
Backlight MTBF (HRs)	50000		50000	
Touchscreen & Controller		EXC7920 (10-point)		EXC7200 (2-point)
System	SBC Model	SMB-QM87-R10		
	Chipset	Intel® QM87		
	CPU	Intel® 22nm 4th Generation Mobile Core™ i5-4400E 2.7GHz processor		
	RAM	4GB 1600MHz DDR3 SDRAM (2GB*2) Two 204-pin 1600/1333MHz dual-channel DDR3 SDRAM support up to 16GB		
Input Interfaces	I/O Ports & Switch	2 x USB 2.0	1 x Isolated 18V ~ 36V DC 3-pin terminal block	
		2 x USB 3.0	1 x Power button	
Expansion	Expansion	1 x VGA	1 x PS2 (through Y-type cable supporting KB/MS)	
		1 x DVI-D	2 x CAN-bus 2.0B, 3-pin terminal block (2.5 kv isolation protection)	
		1 x HDMI	1 x DB-9 RS-232 (non-isolated)	
		1 x Mic-in	4 x DB-9 RS-232/422/485 (2.5 kv isolation protection)	
		1 x Line-out	2 x RJ-45 GbE LAN with teaming support	
		1 x Line-in	(2KV isolation protection)	
		2 x Antenna SMA hole (reserved)		
Ethernet Controller		2 x Full-size PCIe Mini slot, 1 x iRIS-2400 slot (iRIS remote management module)		
		GbE1: Intel® I217LM with Intel® AMT 9.0 support GbE2: Intel® I210-AT PCIe controller		
Sensor		Ambient light sensor (0% ~ 100%)		
OSD		Menu, Brightness down, Brightness up, LCD on/off by cap-sensor (Graphic Engine: Genesis STDP6038)		
Storage		2 x 2.5" SSD bay with RAID 0/1 function 1 x Accessible CFast socket		
LED Indicator		Power (power on: green; power off: orange)/storage (red, blinking)/IPMI (blue)		
Power Requirement		Isolated 18V ~ 36V DC, screw-type 3-pin terminal block		
Operating Temperature		-15°C ~ 55°C (5°F ~ 131°F)		
Storage Temperature		-20°C ~ 60°C (-4°F ~ 140°F)		
Humidity		5% to 95% RH		
Thermal Design		Fanless		
Watchdog Timer		Supports 1~255 sec. system reset		
Certifications		EMC: CE, FCC Safety: DNV, IEC 60945 4th, IACS-E10, IEC 61174 IP rating: IP66 compliant front panel and IP22 compliant rear cover		
Housing		Front aluminum sheet metal (Black C)		
Cut-out Dimensions (L x W)		442 mm x 373 mm		576 mm x 358 mm
Dimensions (L x W x H)		463 mm x 394 mm x 113 mm		592 mm x 374 mm x 113 mm
Net Weight (kg)		9.91		13.03
Gross Weight (kg)		13.38		17.19
Vibration and Shock		IEC 60945 / DNV 2.4 compliant / IACS-E10		
Power Supply (DC Input)		DC Input ATX Power Supply - P/N: 041D710-00-101-RS - 150W Power Supply - Input: 18~36V DC, 8-4A (max.) - Output (max.): 12V @13A		
Power Consumption		112W		117W



## Packing List

Item	Q'ty	Remark
S19A-QM87 or S24A-QM87	1	
User Manual & Driver CD	1	Drivers and User Manual
One Key Recovery CD	1	
Screw Pack	1	Including necessary screws
PS/2 Cable	1	Round cable; PS/2 cable
Wire strain band	3	Wire strain band

## Options

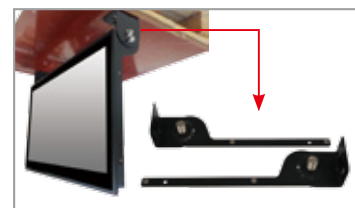
Item	Part No.	Description
Panel Mount Kit	PK-S19A-R10	For S19A
Panel Mount Kit	PK-S24A-R10	For S24A
Desktop Stand	STAND-S24A-R10	For S19A & S24A
Ceiling Mount Kit	CEILMT-S24-R10	For S19A/S24A
iRIS Module	iRIS-2400-R10	IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface

## Ordering Information

P/N	Description
S19A-QM87i-i5/PC/4G-R10	19" 300cd/m <sup>2</sup> SXGA marine panel PC with Intel® Mobile Core™ i5-4400E 2.7GHz CPU, 2*2GB DDR3 RAM, projected capacitive touchscreen, isolated 18-36V DC, iRIS-2400 supported, R10
S24A-QM87i-i5/PC/4G-R10	24"300cd/m <sup>2</sup> FHD marine panel PC with Intel® Mobile Core™ i5-4400E 2.7GHz CPU, 2*2GB DDR3 RAM, projected capacitive touchscreen, isolated 18-36V DC, iRIS-2400 supported, R10



STAND-S24A-R10



CEILMT-S24-R10



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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