

Datasheet

Marine Computer



Freestanding



Shelf Mounted

The Marine Computer is our most powerful computer yet, designed to run all Sonardyne software including Fusion 2, Ranger 2 and third-party applications.

It can be used with the Navigation Sensor Hub (NSH) and Ethernet Serial Hub (ESH).

It's certified to EN 60945 and DNVGL CG-0339, so it's suitable for use on ships' bridges and is built to withstand harsh operating environments where dust, vibration and constant high temperatures are present.

It's also our first fanless computer, powered by an Intel 8th generation CPU and 512 GB wide operating temperature solid state disk. Temperature tolerant components contribute to its impressive operating range spanning -15 to 70°C.

This makes the Marine Computer an extremely versatile and reliable tool in virtually any marine installation condition: desk mounted, in a small survey boat; within a ship's bridge console; or, when supplied with a custom 2U chassis, mounted in a server room rack.

The Marine Computer can be used freestanding, wall mounted or shelf mounted in a standard 19-inch rack (2U).

Key features

- Intel® i7 8700T Hexa core / 2.4 GHz processor
- Versatile industrial specification, fanless embedded computer
- 512 GB wide operating temperature SSD
- Supports triple independent display
- Supports instant reboot technology (0.2 seconds)
- Operational temperature rated -15 to 70°C
- High tolerance shock/vibration rated
- Ethernet or Serial I/F to NSH/ESH
- Freestanding, wall mounted or shelf mounted
- Small form factor

Specifications

Marine Computer



Front View



Rear View

Feature		Specification
Processor		Intel i7 8700T Hexacore 2.4 GHz
RAM		8 GB 2666 MHz DDR4 RAM (non-ECC, un-buffered)
Hard drive		Single 512 GB industrial grade SSD
Drives		Additional 2.5" SATA drive bay
Ports		1x DVI-I, 2 x DisplayPort 1.2, 2x USB 3.1 Gen2, 4x USB 3.0, 2x USB 2.0, 4 x RS232/422/485 serial ports (with auto flow control), 1 x PS2 port, 1 x Line in, 1 x Mic in, 1 x Phone jack 3.5mm, External Fan port, external power port, external reset port
Network		2 x 1 Gbps Ethernet
Power in		Auto sensing ac voltage: 115/230 V, 60/50 Hz Max power input: 221 W Input current: 2 A @ 230 V
Audio		Realtek® ALC888 high definition audio
Video		Supports triple independent display
Environmental specifications	Operating temperature	-15 to 70°C (5 to 158°F)
	Storage temperature	-15 to 70°C (5 to 158°F)
	Relative humidity	95% @ 70°C (non-condensing)
	Vibration	5 Grms, 5-500 Hz, 3 axes according to IEC60068-2-64
	Shock	50 Grms, half-sine 11 ms duration according to IEC60068-2-27
Intended use		Indoor use (including bridge), altitude up to 2,000 m, continuous operation
EMC		Immunity & Emission EN 60945 & DNVGL-CG-0339 compliant ¹
Dimensions (WxDxH)	Unmounted	227 x 261 x 88 mm (8.9 x 10.3 x 3.5")
	Shelf mounted	482 x 423 x 88 mm (19.0 x 16.7 x 3.5")
Weight	Unmounted	4.3 kg
	Shelf mounted	10.5 kg
Options	265-5831	512 GB SSD
	650-0219	Connector pack (1x dc power terminator, 1 x SW reset terminator, 1 x reset terminator, 1 x fan terminator)

¹ Additional ac filter required (part no: 517-0012)