AUTROMASTER MARITIME PC - PC-14M

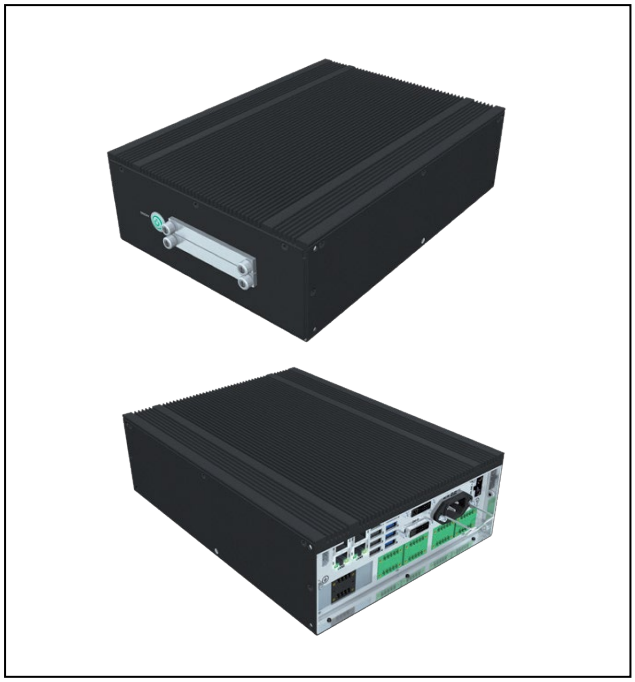
AutroMaster 4 Integrated Safety and Emergency Management System
Product Datasheet

Description/Application

The PC-14M computer is intended for maritime applications used in AutroMaster 4 systems.

The PC also supports a wide range of interface modules such as CAN/NMEA COM/COM and DIO, ensuring it is ready for all maritime applications. In addition, the PC-14M computer features a lightweight, fully enclosed aluminum chassis and comes with a Multi-power system (both AC and DC power built in).

Part number	Description
116-AUTROMASTER-PC-14M	AutroMaster 4 maritime PC



Power Specifications

- Power supply: 100-240VAC 50/60Hz + 24VDC
- Power Consumption[2] - AC/DC: 39W (typ)- 75W (max) - at 25% load. Max Allowed External USB load = 10W.

Note: You may connect either AC power or DC power or both. In case both sources are connected, power will be sourced from the AC input. If AC input is lost, there will be a uninterrupted switch-over to DC input.

[2] Power Consumption: Numbers are specified as the unit is delivered from factory. All additional installed equipment like USB, PCIe and similar loads must be added to power consumption. Note that total extra load must be multiplied by 1.5 to compensate for efficiency in internal power converters. Typical power consumption varies a lot with computer load. Measurements are done with 25% of max computer load.

Mechanical Description

Product Dimensions and Weight

- W:220.00 [8.66"] x H:89.00 [3.50"] x D:300.00 [11.81"] mm [inch]
- Weight: 3.7 kg / 8.1lbs
- Aluminium Cooling Chassis, Painted RAL9011
- Includes: Mounting Bracket Kit, USB + DP/HDMI Retainers, Cable Relief Retainer
- Power/Reset/Power LED Combined Function

Product Carton Size and Weight

- L:405.00 [15.94''] x W:184.00 [7.24''] x H:373.00 [14.69''] mm [inch]
- Approx: 5.0 kg / 11.0lbs

Computer Specifications

Type	Description	Size/Specification
Processor	Intel® Core™ - Intel® Core™ i5-6300U (2 physical core / 4 thread)	2.4GHz / 3GHz 2/4 @15W, 403 GFLOPS, Chipset: Intel® HD 520
Memory/RAM	SO-DIMM SLOT DDR4-2133	2x4GB
Storage	SSD m.2 SATA	240GB (599TBW)
Graphics	Intel® HD Graphics 510 (OpenGL 4.4)/520 (OpenGL 4.5), DirectX 12.0, OpenCL 2.0 1 x	Resolution: DP = 4096x2304@60Hz. DVI-I/D = 1920x1200@60Hz
System Chipset	Integrated in 6th Generation Intel® Core™ U-series processor	

External Connector Type

Graphics	1 x DVI-I[1] + 1 DVI-D + 1 x DP++ 1.2
Ethernet #1	1 x 10/100/1000Mbps, Intel® Ethernet Controller I210-AT Gigabit LAN 1 x RJ-45, Teaming
Ethernet #2	1 x 10/100/1000Mbps, Intel® Ethernet Controller I210-AT Gigabit LAN 1 x RJ-45, Teaming
Ethernet #3	1 x 10/100/1000Mbps, Realtek RTL8119 Gigabit LAN 1 x RJ-45, Teaming
Ethernet #4	1 x 10/100/1000Mbps, Realtek RTL8119 Gigabit LAN 1 x RJ-45, Teaming
USB Ports #1	4 x USB2.0 (<5m) 4 x USB Type A
USB Ports #2	4 x USB3.0 (<3m) 4 x USB Type A
Media Storage	1 x SDXC (SDcard) slot 1 x SDcard Slot
Power	1 x STD IEC + 1 x 2-pin Terminal Block 5.08

[1] Depending on manufactured date of unit, the DVI-I connnector are present on unit, but it will not support VGA

Environmental Considerations

Operating	Temperature -15°C to +55°C
Storage	Temperature -20°C to +60°C
Humidity	Up to 95% (Operating / Storage)
Shock - Vibration	5g/11ms - 0.7g (IEC 60945 / IACS E10)
Air Pressure Maximum Altitude	Operating: 4000m – Storage: 12912m
Air Pressure Maximum Altitude (Bonded)	Operating: 3000m – Storage: 3000m
Compass Safe Distance	Standard: 30cm – Steering: 25cm

Lifetime Considerations

Even though the test conditions for bridge units provide for a maximum operating temperature of 55°C, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25°C. This is a necessary prerequisite for long life and low service costs.

Approvals

The computer has been tested / type approved by the following classification societies:

- IEC 60945 4th (EN 60945:2002) ClassNK - Nippon Kaiji Kyokai
- KR - Korean Register of Shipping
- IACS E10 EN55024 EN55022, Class A
- CCS - China Cl
- EU RO MR - Mutual Recognition BV - Bureau Veritas

Dimensions – Rack