Robust, Compact
Graphics Computer
for Marine Use

MPC-MG20G

The MPC-MG20G is an industrial grade high performance marinized computer specifically designed for shipboard use anywhere onboard ship in protected spaces, such as beneath operating consoles or in electronics bays. It's compact size allows for performance, flexibility and functionality beyond what is found in most PC's of any size. The high performance 3.4 GHz. Intel Core i7® QuadCore CPU with 6 MB L2 cache is built for super-fast processing, low power/heat and low maintenance. The Intel Q87 Chipset® has all the latest graphics support and provides fast I/O servicing. The NVIDIA graphics engine has 1GB of dedicated DDR3 1066MHz. memory and dual DVI-I output for real-time motion on any monitor up to 2048x1536. The base configuration has a 320GB 2.5" ruggedized hard drive, 4GB DDR3 1066MHz. memory, 6 - USB 2.0, dual Fast Ethernet, 4 RS-232/422/485 COM's and PCI expansion slots. The all-aluminum construction will withstand corrosion, shipboard shock and vibration as well as wide variations in operating temperature, and the conformally coated electronics will reduce the chance of corrosion from sea air. The MPC-MG20G is pre-loaded with Microsoft Windows7Professional® 64-bit operating system. It also has a built-in 24X CD-RW/DVD drive. The power and flexibility of this unit allow a variety of professional marine grade navigation, conning and weather/radar software products to be executed to their fullest. The MPC-MG20G comes standard with a 120/240 VAC 600 watt ATX power supply (24VDC is optionally available). Custom configurations are available, including 1U, 2U and 3U chassis and Intel Xeon or other Intel Core i family processors. Mounting brackets are included for bolting down to the deck.

Standard Features

- Intel Core i7® 3.4 GHz. QuadCore CPU.
- 320GB Rugged Hard Drive, Upgradable to 1TB.
- 4GB DDR RAM Memory, Upgrade to 32GB.
- Intel Q87 Video Chipset + ICH9DO
- NVIDIA GeForce Graphics with 1GB Video RAM.
- Dual 10/100/1000 Fast Ethernet, RJ-45.
- 4 - RS-232/422/485 Serial Ports
- 6 - USB 2.0 Ports.
- Dual DVI-I Monitor Outputs.
- Filtered Circulating fan.
- Ventilated Aluminum Ruggedized Chassis.
- CD-DVD/ RW 24x Optical Drive.
- 115/230 VAC 600w. ATX Power Supply.
- PCI Express Option Slots.

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Specifications

CPU	Intel Core i7® 3.4GHz. QuadCore Processor, Processors from the Intel Corei Family or Xeon optional.	
Operating System	Windows7 Professional® 64-bit	
Hard Drive	320 GB 2.5" Industrial Grade SATA, Upgradable to 1TB or Solid State; Also RAID0, 1 Multiple Drives Optional	
Memory	4GB DDR3 1066MHz, Expandable to 32GB	
Digital Media	Internal CD-RW/DVD, 24x Optical Drive	
Chipset	Intel Q87 with HD3000 Graphics Accelerator and ICH9DO	
Graphics Processor	NVIDIA GeForce with 1GB Dedicated Video RAM, 2048x1536 Max Resolution	
I/O Ports	6 - USB 2.0, 4 - RS-232/422/485 Serial COM Ports	
Monitor Support	Dual DVI-I Out, Supports Dual Display and Extended Desktop	
Networking	2 - RJ-45 10/100/1000 Base T Fast Ethernet	
Weight	9.5 kg / 21 lbs.	
Dimensions	10.35" H x 11.0" W x 14.7" D (263mm H x 279mm W x 373mm D)	
Power	600 Watts Maximum	

Environmental	**Operating**	**Non-Operating**
Temperature (Air Ambient)	-10°C to 60°C (14°F to 140°F)	-55°C to 75°C (-67°F to 167°F)
Relative Humidity	5% to 95%, non-condensing	

Electrical	120/240 VAC (Optional 24VDC 550W)	
MTBF	20,000 Hrs.	
Standards	TUV, CSA, UL, FCC Class A, Part 15, RoHS Compliant	

www.marinepc.com
info@marinepc.com

MarinePC
(Div. of Cavis Corporation)

T. 1-480-515-1838
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