



Robust, Compact Graphics Computer for Marine Use

MPC-MG20G

The MPC-MG20G is an industrial grade high performance marinated computer specifically designed for shipboard use 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 2.8 GHz. Intel Core 2 Duo® CPU with 3 MB L2 cache is built for super-fast processing, low power/heat and low maintenance. The Intel Q35 Chipset® has all the latest graphics support. The GeForce8600GT graphics engine has 512MB of dedicated DDR2 400MHz. memory for real-time motion on any monitor up to 2048x1536. The base configuration has a 128GB solid state hard drive, 2GB DDR2 667MHz. memory, 4 - USB 2.0, dual Fast Ethernet, DVI/VGA/S-Video outputs and 2 RS-232 COM's and 4 - PCI-E expansion slots. The construction will withstand shipboard shock and vibration as well as wide variations in operating temperature, with conformal coating to survive in corrosive sea air. The MPC-MG20G is pre-loaded with Microsoft Windows7 or XP® Professional. It also has a built-in CD-RW/DVD drive conveniently located on the front of the unit. The power and flexibility of this unit allow proprietary marine products with 3-D real-time bathymetric charting to be executed to their fullest. The MPC-MG20G comes standard with an internal 24 VDC or 120/240 VAC 360 watt ATX power supply. Custom configurations are available, including 1U and 4U chassis and Intel Xeon or Core2Quad processors.



Standard Features

- Intel Core 2 Duo® 2.8 GHz. Processor, 3MB cache.
- 128 GB Solid State Hard Drive.
- 2GB DDR RAM Memory, Upgrade to 4 or 8 GB.
- Intel Q35 Video Chipset + ICH9DO
- GeForce8600GT Graphics with 512 MB Video RAM.
- Dual 10/100/1000 Ethernet, RJ-45.
- 2 - RS-232C Serial Ports, Expandable to 4.
- 4 - USB 2.0 Ports, Expandable to 6.
- VGA and DVI-D Video Monitor Outputs.
- Filtered Circulating fan.
- Ventilated Ruggedized Chassis with Deck Mount.
- CD-DVD/ RW 20x Optical Drive.
- 24 VDC or 115/230 VAC 360w. ATX Power Supply.
- 4 - PCI Express Option Slots.



2U 19" Rack Mount Option



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Specifications

❑	CPU	Intel Core 2 Duo® 2.8 GHz. Processor, 3MB cache, 1066 FSB, Upgradable						
❑	Operating System	Windows7 or WindowsXP® Professional Edition						
❑	Hard Drive	128 GB 2.5" Solid State SATA Hard Drive, Upgradable to 160, 250 or 500GB Ruggedized Hard Drive.						
❑	Memory	2GB DDR2 800MHz, Expandable to 4 GB (8 GB for 64-bit OS)						
❑	Digital Media	Internal CD-RW/DVD, 20x						
❑	Chipset	Intel Q35 with Graphics Accelerator and ICH9DO						
❑	Graphics Processor	GeForce8600GT with 512MB Dedicated Video RAM, 2048x1536 Max Resolution						
❑	I/O Ports	4 - USB 2.0 master, Upgradable to 6, 2 - RS-232C Serial Upgradable to 4						
❑	Monitor Support	Dual DVI-I Out via High-density DVI connectors Standard VGA (RGB) Out via Mini DB-15 F with Component Video Converter						
❑	Networking	2 - RJ-45 10/100/1000 Base T Ethernet						
❑	Weight	8.0 kg / 17.6 lbs.						
❑	Dimensions	10.18" H x 9.17" W x 17.00" D (259mm H x 233mm W x 433mm D)						
❑	Power	100 Watts Minimum - 360 Watts Maximum						
❑	Environmental	<table border="0"> <tr> <td>Operating</td> <td>Non-Operating</td> </tr> <tr> <td>Temperature (Air Ambient)</td> <td>0°C to 50°C (32°F to 122°F) -55°C to 75°C (-67°F to 167°F)</td> </tr> <tr> <td>Relative Humidity</td> <td>5% to 95%, non-condensing</td> </tr> </table>	Operating	Non-Operating	Temperature (Air Ambient)	0°C to 50°C (32°F to 122°F) -55°C to 75°C (-67°F to 167°F)	Relative Humidity	5% to 95%, non-condensing
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Relative Humidity	5% to 95%, non-condensing							
❑	Electrical	24 VDC or 120/240 VAC						
❑	MTBF	20,000 Hrs.						
❑	Standards	TUV, CSA, UL, FCC Class A, Part 15, RoHS Compliant						

