



**Robust, Compact  
Graphics Computer  
for Marine Use**

# MPC-MG20

The MPC-MG20 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 3.1 GHz. Intel Core i3® CPU with 3 MB L2 cache is built for super-fast processing, low power/heat and low maintenance. The Intel P67 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 160GB mobile hard drive, 1GB DDR2 800 MHz. memory, and 1 x RS-232 COM, 8 x USB 2.0, dual Fast Ethernet, dual HDMI, audio I/O, dual DVI-I outputs, SD card slot 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-MG20 is pre-loaded with Microsoft Windows7. 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-MG20 comes standard with an internal 24 VDC or 120/240 VAC 360 watt ATX power supply. Custom configurations are available, including 2U rack mount chassis and Intel Xeon or Corei5 or Corei7 processors.



## Standard Features

- Intel Core i3® 3.1 GHz. Processor, 3MB cache.
- 160 GB Rugged Hard Drive, Upgradable to 1 TB.
- 1GB DDR RAM Memory, Upgrade to 2 or 4 GB.
- Intel P67 Chipset
- GeForce8600GT Graphics with 512 MB Video RAM.
- Dual 10/100/1000 Ethernet, RJ-45.
- 1 - RS-232C Serial Port, Expandable.
- 8 - USB 2.0 Ports.
- HDMI and DVI-I Video Monitor Outputs.
- SD Card Slot Front Access.
- 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

|   |                           |  |                                |
|---|---------------------------|--|--------------------------------|
| ❑ | <b>CPU</b>                | Intel Core i3® 3.1 GHz. Processor, 3MB cache, 1333 FSB   |                                |
| ❑ | <b>Operating System</b>   | Windows7 or WindowsXP® Professional Edition  |                                |
| ❑ | <b>Hard Drive</b>         | 160 GB 2.5" Industrial Grade SATA, Upgradable to 250 GB, 500GB or 1TB, or 64 or 128 GB Solid State |                                |
| ❑ | <b>Memory</b>             | 1GB DDR2 667MHz, Expandable to 4 GB (8 GB for 64-bit OS)   |                                |
| ❑ | <b>Digital Media</b>      | Internal CD-RW/DVD, 20x  |                                |
| ❑ | <b>Chipset</b>            | Intel P67 with Graphics Accelerator  |                                |
| ❑ | <b>Graphics Processor</b> | GeForce8600GT with 512MB Dedicated Video RAM, 2048x1536 Max Resolution                             |                                |
| ❑ | <b>I/O Ports</b>          | 8 - USB 2.0 master, Expandable, 1 - RS-232C, Expandable  |                                |
| ❑ | <b>Monitor Support</b>    | Standard VGA (RGB) Out via Mini DB-15 F, 2 x HDMI, 2 x DVI-I Out via High-density DVI connector    |                                |
| ❑ | <b>Networking</b>         | 2 - RJ-45 10/100/1000 Base T Ethernet  |                                |
| ❑ | <b>Weight</b>             | 9.0 kg / 20 lbs.   |                                |
| ❑ | <b>Dimensions</b>         | 12" H x 9.875" W x 16.00" D (305mm H x 251mm W x 406mm D)  |                                |
| ❑ | <b>Power</b>              | 200 Watts Minimum - 600 Watts Maximum  |                                |
| ❑ | <b>Environmental</b>      | <b>Operating</b>   | <b>Non-Operating</b>           |
|   | 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  |                                |
| ❑ | <b>Electrical</b>         | 24 VDC or 120/240 VAC  |                                |
| ❑ | <b>MTBF</b>               | 20,000 Hrs.  |                                |
| ❑ | <b>Standards</b>          | TUV, CSA, UL, FCC Class A, Part 15, RoHS Compliant   |                                |

