



Marine Grade Fanless
12.1" Touchscreen
Integrated Computer/ Monitor

MPC-OPC12

The MPC-OPC12 is a marine grade flat panel Active Matrix LCD Monitor combined with an Intel QuadCore Atom Mobile Processor and is designed for rugged use on or off bridge in semi-protected areas. The 12.1" XGA (1024x768) LCD utilizes LED technology to enhance viewing in daylight. The MPC-OPC12 front is fully sealed to IP65 in the front and IP22 in the rear. It comes standard with a waterproof touch screen that is fully operational even when wet. The MPC-OPC12 utilizes an ultra-low power 1.91 GHz. Intel Quad-Core Atom E3845 mobile processor for low wattage and high performance. It comes standard with a 300GB hard drive (or 128GB SSD), 2GB RAM, Ethernet, 2-USBs and 1 - RS232/422/485 COM. The MPC-OPC12 is available with Windows7 Pro, Win10 or Linux. The normal operating temperature range is 0 to +50°C (-20 to 60°C with Solid State Hard Drive) making it suitable for use in almost any climate without special conditioning. The anti-corrosion case is designed for surface mounting or standard VESA mount, but can be ordered with an optional flush bezel for console cutout mounting. Common applications include electronic chart plotter, virtual instrumentation, sounder, operator interface or as a weather computer. It is available with main drive and memory upgrades and wireless LAN.



Standard Features

- Sealed Aluminum Front Rated IP65 Splashproof.
- 12.1" XGA Color LCD, 600nit LED Backlight.
- Waterproof Touchscreen.
- 1.91 GHz. Ultra-Low Power Intel Core Atom CPU.
- 300GB Hard Drive (or 128GB SSD) upgradable.
- 2 GB DDR3 RAM (upgradable to 8 GB).
- Ethernet, 10/100/1000BaseT (Dual optional.)
- Optional Wireless LAN 802.11 b/g/n.
- Windows7 Pro, Win10 or Linux Fedora.
- Exceptional Temperature Range: -20 to +60°C.
- Standard Bezel for Surface or VESA Arm Mounting.
- Optional Flush Mount for Console Cutout.
- Powered from 12 or 24 VDC nominal.
- 1 or 2 - COMs, 2 or 4 - USBs, HDMI Out, Audio.





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Specifications

Display	12.1" Active Matrix TFT LCD: XGA (1024x768) Native Resolution
Brightness	350 nits low power LED Backlight (Upgradable to ~1,000 nits)
Touchscreen	Analog Resistive Waterproof Touchscreen, 35 Million Activations
Processor/Chipset	Intel QuadCore Atom 1.91GHz. CPU E3845, Fanless Cooling
Hard Drive	300 GB Hard Drive, Upgradable to 128, 275, 500 or 1TB GB Solid State, or 500 GB or 1TB HD
Memory	2 GB RAM, Upgradable to 8 GB, DDR3L 1333MHz.
Networking	1 - 10/100/1000BaseT RJ-45 (Dual LAN optional)
Wireless	Optional Wireless LAN IEEE 802.11 b/g/n
Inputs/Outputs	1 - RS-232/422/485 (Optional 2nd RS-232), 2 - USB 2.0 (4 - optional), 1 - HDMI, Audio LineOut, PS-2 KMS
Operating System	Windows7 Pro (32 or 64-bit) or Win10 64-bit Optional: Linux
Housing	IP65 Splashproof Sealed Front, IP22 Aluminum Rear Case with Aluminum Heat Sink
Mounting	Surface Mount Bezel or VESA100 Mounting, Optional Extended Flush Bezel for Console Cutout Mounting
Power	12-26 VDC, 60 watts (AC Adapter Optional)
Basic Dimensions	13.77" x 10.78" x 2.2" (283mm. x 222mm. x 45mm.)
Weight	Net: 6.6 lb. (3.0 kg.) Shipping: 10 lb. (4.5 kg.)
Standards	CE, FCC Class A