



**Waterproof Fanless
High Performance DC Computer
for Marine Use**

MPC-WPC7217

The MPC-WPC7217 is a high performance maritized computer designed for shipboard use where direct exposure to water is likely. The high performance 1.70 GHz. DualCore i7 Intel® mobile CPU is built for fanless operation, very low power/heat and low maintenance. The MPC-WPC7217 is designed for high shock and vibration and wide variations in operating temperature, the non-ventilated enclosure eliminates dirt and salt air drawn in by fan-cooled units. The MPC-WPC7217 is designed to be bolted down where ever it is convenient for operation in a vessel. The MPC-WPC7217 is user friendly, running Microsoft Windows10® IoT operating system. This operating system allows for maximum tolerance of Startup/Shutdown procedures without operator intervention. It offers standard I/O including 1-RS-232 COM, 3-USB 2.0 ports, dual RJ-45 fast ethernet and VGA monitor support (DVI optional). The MPC-WPC7217 is designed to be powered directly from any 9-36 VDC source and is available with external 90-254 VAC power adapter. The MPC-WPC7217 has an all aluminum enclosure yet it is rated to operate from -20° to +60°C (-4° to 140°F) and it is extremely compact, taking only 6.62"W x "D x 1.97"H. Connections are made to the computer with supplied waterproof cables and connectors to via standard computer connectors for interoperability and convenience. Standard is a 250GB SSD and 4GB RAM.



Standard Features

- Intel® i7-3517 1.70 GHz. DualCore Processor.
- 250 GB Solid State Main Drive, Upgradable.
- 4 GB DDR3L 1600MHz. RAM Memory Standard, 8GB Opt.
- Intel® HM76 Intergated Graphics Chipset.
- Dual 10/100/1000 Ethernet.
- 1 - RS-232 COM (1 - Additional RS-232 COM optional).
- 3 - USB 2.0 Ports, 8-GPIO and Audio Optional.
- Windows10® IoT 64-bit Operating System.
- Fanless Non-Corrosive Aluminum Sealed Case.
- Internal MicroSD Option Slot, Wireless 802.11 b/g/n.
- 9-36 VDC Power Input.
- Super-compact 10.25" x 6.62" x 1.97", 7 lb.



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Specifications

■	CPU	Intel® Core i7-3517UE DualCore 1.70GHz. Mobile Processor, 4MB Cache (Upto 2,8GHz. Turbo Boost)	
■	Operating System	Windows10 IoT 64-bit	
■	Hard Drive	250 GB 2.5" Solid State Main Drive (Upgradable)	
■	Memory	4GB DDR3L 1600MHz. SDRAM (Upgradable to 8GB)	
■	Video Chipset	Intel HM76 Integrated Graphics Chipset	
■	I/O Ports	3 - USB 2.0, 1 - RS-232 COM (Upgradable to 2)	
■	Monitor Support	VGA Port (Optional to add 1 - DVI-I)	
■	Networking	Dual RJ-45 10/100/1000 Base T Ethernet, Optional IEEE 802.11 b/g/n Wireless with Antenna	
■	Other Options	8-Channel GPIO, SIM card socket, 1x MicroSD card socket, Audio Line-in/Line-Out	
■	Enclosure	Aluminum Finned, Sealed to IP65 Splashproof All Sides	
■	Dimensions	10.25"W x 6.62"D x 1.97"H (260.4mm. x 168mm. x 50mm.)	
■	Mounting	Slotted mounting brackets	
■	Weight	3.2 kg / 7 lbs.	
■	Power	35 Watts Nominal	
■	Environmental	Operating	Non-Operating
	Temperature (Air Ambient)	-20°C to 60°C (-4°F to 140°F)	-40°C to 75°C (-40°F to 167°F)
	Relative Humidity	5% to90% (@40°C) non-condensing	
■	Electrical		
	Input	9-36 VDC Internal	120/240 VAC (Ext. Adapter)
	Frequency	12/24 VDC Input Nominal	45 – 75 Hz
■	Standards	CE, FCC Class B Part 15	