



## Ruggedized, Fanless, Expandable High Performance DC Computer for Marine Use

# MPC-7434

The MPC-7434 is a high performance marinated computer designed for ship-board use in all weather conditions up to Sea State 5. The high performance 7th Generation 3.40 GHz. QuadCore i5 Intel® mobile CPU is built for fanless operation, very low power/heat and low maintenance. 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-7434 is designed to be bolted down where ever it is convenient for operation in a vessel. The MPC-7434 is user friendly, running Microsoft Windows10® Professional operating system. It offers standard I/O including 4-RS-232 COM ports, 2-RS-232/422/485 COM ports, 4-USB 2.0 ports, 4-USB 3.0 ports, dual RJ-45 fast ethernet and HDMI, DVI and VGA monitor outputs. The MPC-7434 has 1 - PCIe Option slots for additional expanded I/O, is designed to be powered directly from any 9-30 VDC source and is available with an external 90-254 VAC power adapter. The MPC-7434 has an aluminum enclosure and is rated to operate from -20° to +60°C (-4° to 140°F) and it is extremely compact, taking only 9.45"W x 9.45"D x 3.74"H. Connections are made to the computer via standard computer connectors for interoperability and convenience. Standard is a 500GB SSD and 8GB RAM.



Front



Rear

### Standard Features

- Intel® 3.40 GHz. QuadCore 7th Generation i5 Processor.
- 500GB Solid State Main Drive, Upgradable to 2TB.
- 8 GB DDR4 2133MHz. RAM Memory Standard, 32GB Opt.
- Intel® H110 Intergated Graphics Chipset.
- Dual 10/100/1000 Ethernet.
- 2 - RS232/422/485 COMs, 4 - RS-232 COMs.
- 2 - USB 2.0 Ports, 4 - USB 3.0 Ports.
- Windows10® Pro 64-bit Operating System.
- Fanless Non-Corrosive Aluminum Sealed Case.
- Dual PCIe Option Slots.
- 9-36 VDC Power Input.
- Super-compact 9.45" x 9.45" x 3.74", 10.4 lb.



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## Specifications

■	<b>CPU</b>	Intel® Core i5 Quad Core 3.40GHz. 7th Generation Mobile Processor	
■	<b>Operating System</b>	Windows10 Pro 64-bit	
■	<b>Hard Drive</b>	500 GB 2.5" Industrial Grade Solid State Drive (Upgradable to 1TB or 2TB)	
■	<b>Memory</b>	8GB DDR4-2133MHz. SDRAM (Upgradable to 32GB)	
■	<b>Video Chipset</b>	Intel H110 Integrated Graphics Chipset	
■	<b>I/O Ports</b>	2 - USB 2.0, 4 - USB 3.0, 4 - RS-232 COM, 2 - RS-232/422/485	
■	<b>Monitor Support</b>	VGA, DVI and HDMI	
■	<b>Expansion</b>	PCIe x 16 Option Slot (consult Factory to verify compatibility)	
■	<b>Networking</b>	Dual RJ-45 10/100/1000 Base T Ethernet	
■	<b>Dimensions</b>	9.45"W x 9.45"D x 3.74"H (240mm. x 240mm. x 95mm.)	
■	<b>Mounting</b>	Slotted mounting brackets	
■	<b>Weight</b>	4.7 kg / 10.4 lbs.	
■	<b>Power</b>	65 Watts Nominal	
■	<b>Environmental</b>	<b>Operating</b>	<b>Non-Operating</b>
	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	10% to 90% non-condensing	
■	<b>Electrical</b>		
	Input	12-24 VDC Internal	120/240 VAC (External Adapter optional)
	Frequency	12/24 VDC Input Nominal	45 – 75 Hz
■	<b>Standards</b>	CE, FCC Class B Part 15, RoHS	