



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's, 2-RS-232/422/485 2.5KV isolated serial 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 2 - PCIe Option slots for additional expanded I/O, is designed to be powered directly from any 9-30 VDC source and is available with 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 4.6"H. Connections are made to the computer via standard computer connectors for interoperability and convenience. Standard is a 250GB SSD and 8GB RAM.



Front



Rear

Standard Features

- Intel® 3.40 GHz. QuadCore 7th Generation i5 Processor.
- 250 GB 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 Isolated 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, Wireless 802.11 b/g/n.
- 9-36 VDC Power Input.
- Super-compact 9.45" x 9.45" x 4.6", 12.4 lb.



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Specifications

□	CPU	Intel® Core i7 DualCore 2.60GHz. 6th Generation Mobile Processor	
□	Operating System	Windows10 Pro 64-bit	
□	Hard Drive	250 GB 2.5" Industrial Grade SATA Intel Solid State Main Drive (Upgradable to 500, 1TB or 2TB)	
□	Memory	8GB DDR4-2133MHz. SDRAM (Upgradable to 32GB)	
□	Video Chipset	Intel H110 Integrated Graphics Chipset	
□	I/O Ports	2 - USB 2.0, 4 - USB 3.0, 2 - RS-232 COM, 4 - RS-232/422/485 Isolated COM, 2.5KV	
□	Monitor Support	VGA, DVI and HDMI up to 1920x1080 or 1920x1200	
□	Expansion	Dual PCIe Option Slots (consult Factory to verify compatibility)	
□	Networking	Dual RJ-45 10/100/1000 Base T Ethernet, Optional IEEE 802.11 b/g/n Wireless with Bluetooth	
□	Dimensions	9.45"W x 9.45"D x 4.6"H (240mm. x 240mm. x 117mm.)	
□	Mounting	Slotted mounting brackets	
□	Weight	5.6 kg / 12.4 lbs.	
□	Power	65 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, Built to IEC EN60945 and MIL-STD-810G	