



Ruggedized, Fanless DC Computer for Marine Use

MPC-2550

The MPC-2550 is a high performance marinated computer designed for ship-board use in all weather conditions up to Sea State 5. The high performance 1.86 GHz. DualCore Atom® mobile CPU is built for fanless operation, 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-2550 is designed to be bolted down where ever it is convenient for operation in a vessel. The MPC-2550 is user friendly, running Microsoft Windows7® Professional or Linux operating systems. It offers standard I/O including 2-RS-232 serial COM ports, 6-USB ports, Audio I/O, dual RJ-45 fast ethernet and VGA and HDMI (DVI-D) monitor outputs, GPIO and Compact Flash slot. The MPC-2550 is designed to be powered directly from any 9-30 VDC source. The MPC-2550 has an all aluminum enclosure yet it is rated to operate from -10° to +60°C (14° to 140°F) and it is extremely compact, taking only 10.67"W x 5.9"D x 2.38"H. Connections are made to the computer via standard computer connectors for interoperability and convenience. Standard is a 320GB HD and 4GB RAM, and available options include solid state HD, 802.11b/g Wi-Fi, internal mini-card and external AC power adapter.



Front



Rear

Standard Features

- Intel® 1.86 GHz. DualCore Atom D2550 Processor.
- 320 GB SATA Hard Drive, Upgradable to 500 GB or 1TB.
- Optional 64 up to 500 GB Solid State Sealed Hard Drive.
- 2 GB or 4 GB DDR3 1066MHz. RAM Memory Standard.
- Intel® NM10 Express Chipset.
- Dual 10/100/1000 Ethernet.
- 2 - Serial Ports; 1 - RS232, 1 - RS-232/422/485.
- 6 - USB 2.0 Ports.
- Windows7® Operating System.
- Compact Flash Option Slot with cover.
- Fanless Non-Corrosive Aluminum Sealed Case.
- Internal Mini-card Option Slot, Wireless 802.11 b/g.
- 9-30 VDC Power Input.
- Super-compact 10.67" x 5.9" x 2.38", 10.34 lb.



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Specifications

□	CPU	Intel® Atom D2550 DualCore 1.86GHz. Processor	
□	Operating System	Windows7, or Linux	
□	Hard Drive	320 GB 2.5" Industrial Grade SATA, Optional 250 GB or 500 GB or 1TB, Optional 64 GB up to 500 GB Solid State	
□	Memory	2 GB or 4GB DDR3 800/1066MHz. SDRAM	
□	Video Chipset	Intel NM10 Express Chipset	
□	Compact Flash	1 - Compact Flash Slot with protective cover	
□	Expansion	1 - Mini-card Slot (Internal)	
□	I/O Ports	6 - USB 2.0, 1 - RS-232, 1 - RS-232/422/485, General Purpose Digital I/O: 8-In, 8-Out, Audio I/O	
□	Monitor Support	Standard VGA (RGB) and HDMI (DVI-D with Adapter)	
□	Networking	2 - RJ-45 10/100/1000 Base T Ethernet	
□	Dimensions	10.67"W x 5.9"D x 2.38"H (271mm. x 150mm. x 60mm.)	
□	Mounting	Slotted mounting brackets	
□	Weight	2.5 kg / 5.5 lbs.	
□	Power	35 Watts Nominal	
□	Environmental	Operating	Non-Operating
	Temperature (Air Ambient)	-10°C to 60°C (14°F to 140°F)	-40°C to 75°C (-40°F to 167°F)
	Relative Humidity	5% to90% (@40°C) non-condensing	
□	Electrical		
	Input	9-30 VDC Internal	120/240 VAC (Ext. Adapter)
	Frequency	12/24 VDC Input Nominal	45 – 75 Hz
□	Standards	CE, FCC Class B Part 15	
□	Options	External AC Adapter	
		Wireless IEEE 802.11 b/g	
		Internal Mini-card (Consult factory)	