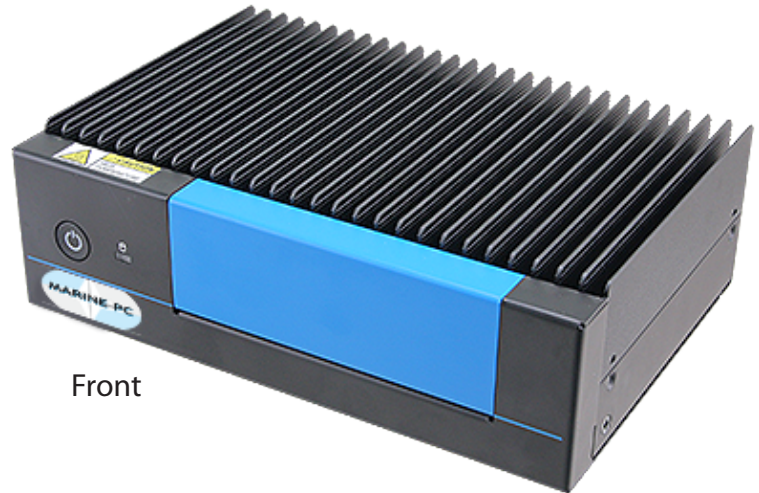MARINE PC

Ruggedized, Fanless
Low SWaP DC Computer
for Marine/Mobile Use

MPC-8200

The MPC-8200 Series is a high performance marinized computer designed for shipboard use in all weather conditions up to Sea State 5. In particular, this unique design optimizes small Size, low Weight, and very low Power (SWaP). The high performance 8th Generation Core i3/5/7 Intel® mobile CPU is built for fanless operation, very low power/heat and low maintenance. The MPC-8200 has been marine prepped for use on all vessels, and also in rugged mobile applications. 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-8200 is designed to be bolted down where ever it is convenient for operation in a vessel. The MPC-8200 is user friendly, running Microsoft Windows10® Professional operating system. The main memory can be stored in either a 2.5" or M.2 SSD, or both. It offers standard I/O including 4-USB 3.1 ports, dual RJ-45 fast ethernet and dual HDMI monitor outputs capable of supporting 4K HD. Options include RS-232 Serial input, 5th USB and Wi-fi. The MPC-8200 is designed to be powered directly from any 12 VDC source and is available with external 90-254 VAC power adapter. The MPC-8200 has an all aluminum heat sink and is rated to operate from -20° to +60°C (-4° to 140°F) and it is extremely compact, taking only 7"W x 4.8"D x 2.2"H.

Front

Rear

Standard Features

- Intel® 8th Generation Corei 3/5/7 Processors.
- 250 GB Solid State Main Drive, Upgradable: 512MB, 1TB.
- 4 GB DDR4 2400MHz. RAM Memory, up to 64GB Opt.
- Intel® UHD 620 Intergated Graphics Chipset.
- Dual 10/100/1000 Ethernet.
- 2 - HDMI Digital Video Outputs.
- 4 - USB 3.1 Ports (5th Optional).
- Windows10® Pro 64-bit Operating System.
- Fanless Non-Corrosive Aluminum Sealed Case.
- Internal Mini-card Option Slot, Wireless 802.11 b/g/n.
- 12 VDC Power Input with 90-254 VAC Eaternal Option.
- Super-compact 7" x 4.8" x 2.2", 7.5 lb.

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MPC-8200

Specifications

CPU	Intel® Core i3-8145UE, Core i5-8365UE, Core i7-8665UE 8th Generation Mobile Processor
Operating System	Windows10 Pro 64-bit, IoT Mobile Version - On/Off Tolerant
Hard Drive	250 GB 2.5" Industrial Grade Solid State Main Drive Upgradable to 512MB or 1TB, 2.5"x7mm. and/or M.2
Memory	4GB DDR4-2400MHz. SDRAM (Upgradable to 64GB)
Video Chipset	Intel UHD 620 Integrated Graphics Chipset
I/O Ports	4 - USB 3.0, Optional 5th USB and/or 1 - RS-232 COM
Monitor Support	Dual HDMI 1.4, Up to 4096x2160 Resolution Supported
Networking	**Dual** RJ-45 10/100/1000 Base T Ethernet, Optional IEEE 802.11 b/g/n Wireless with Bluetooth
Dimensions	7"W x 4.8"D x 2.2"H (177mm. x 123mm. x 55mm.)
Mounting	Slotted mounting brackets
Weight	1.2 kg / 2.65 lbs.
Power	15 Watts Nominal, 35 Watts Surge

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	12 VDC Internal	120/240 VAC (Ext. Adapter)
Frequency	12 VDC Input +/- 5%	Nominal 45 – 75 Hz

Standards	CE, FCC Class B Part 15, IEC60068-2, Meets TAA, OpenNet and GO

Ordering Infoirmation

MPC-8214	Core i3-8145UE 2.2 GHz. up to 3.9 GHz., DualCore, 4 MB Cache
MPC-8236	Core i5-8365UE 1.6 GHz. up to 4.1 GHZ. QuadCore, 6 MB Cache
MPC-8266	Core i7-8665UE 1.7 GHz. up to 4.4 GHz. QuadCore, 8 MB Cache

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