



Ruggedized, Fanless DC Computer for Marine Use

MPC-1900

The MPC-1900 is a high performance marinated computer designed for ship-board use in all weather conditions up to Sea State 5. The high performance 2.0 GHz. QuadCore Intel® Celeron 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-1900 is designed to be bolted down where ever it is convenient for operation in a vessel. The MPC-1900 is user friendly, running Microsoft Windows10® Professional operating system. It offers standard I/O including 1-RS-232/422/485 serial COM port (optional 3 expansion COMs, 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-1900 is designed to be powered directly from any 12 or 24 VDC source. The MPC-1900 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 5.91"D x 2.17"H. Connections are made to the computer via standard computer connectors for interoperability and convenience. Standard is a 32GB SSD and 2GB 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® 2.0 GHz. QuadCore Celeron J1900 Processor.
- 32 GB SATA Solid State Drive, Upgradable.
- 1 - VGA Output, 1 - HDMI (DVI with adapter or cable).
- 2 GB, 4GB or 8 GB DDR3L 1333MHz. SDRAM Memory.
- Intel® Valleyview SoC Integrated HD Graphics Chipset.
- Dual RJ-45 10/100/1000 Ethernet.
- 1 - RS-232/422/485 COM Port, 3 - Expandable RS-232.
- 5 - USB 2.0 Ports, 1 - USB 3.0 Port.
- Windows10® Operating System.
- Compact Flash Option Slot with cover.
- Fanless Non-Corrosive Aluminum Sealed Case.
- Internal Mini-card Option Slot, Wireless 802.11 b/g.
- 12-26 VDC Power Input.
- Super-compact 10.67" x 5.91" x 2.17", 10.34 lb.



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Specifications

| | | | |
|---|---------------------------|---|--------------------------------|
| □ | CPU | Intel® Celeron J1900 QuadCore 2.0 GHz. Processor | |
| □ | Operating System | Windows10, or Linux | |
| □ | Hard Drive | 32 GB 2.5" Industrial Grade SATA SSD, Optional 320 GB or 500 GB or 1TB HD, Optional 64 GB up to 500 GB Solid State | |
| □ | Memory | 2 GB or Optional 4GB or 8GB DDR3L 1333MHz. SDRAM | |
| □ | Video Chipset | Intel Valleyview SoC Intergated Chipset with HD Graphics | |
| □ | Compact Flash | 1 - Compact Flash Slot with protective cover | |
| □ | Expansion | 1 - Mini-card Slot (Internal) | |
| □ | I/O Ports | 5 - USB 2.0, 1 - USB 3.0, 1 - RS-232/422/485, Audio I/O, Optional 3 - RS-232 + General Purpose Digital I/O: 8-In, 8-Out | |
| □ | 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 5.91"D x 2.17"H (271mm. x 150mm. x 55mm.) | |
| □ | Mounting | Slotted mounting brackets | |
| □ | Weight | 4.7 kg / 10.34 lbs. | |
| □ | Power | 45 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 | 12-26 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) | |