

## MPC-3900 Portable Workstation

### Dual-Processor Support Workstation with PCI-Express Slots

#### Features

- » Custom-build and expandable portable workstation.
- » Aluminum-metal construction.
- » Supporting ATX and Extended ATX system boards.
- » Supports single and dual CPU configurations.
- » Multiple PCI and PCI-Express slots for add-on cards.
- » Integrated 20.1" active matrix flat panel display with 1600x1200 resolution.
- » Six removable SATA drive bays supporting multiple device RAID sets.
- » One 5.25" drive bay, two slim-line drive bays for optical read/write devices and floppy drive.
- » Fold-down keyboard with pointing device.
- » 450-watt power supply standard.

#### Self-contained Portable Computing Solution

The MPC-3900 is a portable workstation designed to pack the highest desktop PC performance in a portable package. Its spacious internal layout supports Micro-ATX, ATX and Extended ATX motherboards, up to six removable SATA hard drives, and high end PCI-Express graphics.

The MPC-3900 comes in a road-ready lunchbox style portable enclosure. The rugged computer chassis is constructed of aluminum alloy and steel. Corner rubber bumpers help to absorb shock during transport, or in the field. The keyboard folds out for use and includes a touchpad mouse. A 450-watt ATX power supply is standard. A rubber-clad carrying handle makes carrying the system easy, and a luggable carry case with wheels let you transport the system over long distances.

#### Expandable and upgradable system features

The MPC-3900 offers flexible system configuration using the latest COTS (commercial off-the-shelf) PC components. It packs powerful workstation-class computing capability using the latest processor technologies by Intel and AMD.

There are six removable SATA drive bays supporting multiple storage devices and RAID configuration. Video production and CAD professionals will appreciate its dual video card capable system architecture, and its 1600x1200 resolution, 20.1" LCD monitor.



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## System Chassis Specifications

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<i>Chassis Construction</i>	<b>Portable Chassis</b> Portable system chassis constructed of aluminum alloy and steel. Integrated flat panel display and fold-out keyboard. Rubber corner bumpers. Tilt-up feet under chassis. Built-in speakers with 2 x 6 watt stereo amplified output.
<i>Integrated Display Options</i>	20.1" TFT LCD, 1600 x 1200 optimum resolution, 300 cd/m <sup>2</sup> , 50,000 hours backlight life.
<i>Keyboard</i>	Fold-down 108-key keyboard with positive tactile feedback keyswitches. Integrated touchpad pointing device.
<i>Cooling</i>	1x 12 cm fan, 4x 6 cm fan.
<i>Dimensions</i>	20.0" (W) x 15.25" (H) x 9.5" (D).
<i>Weight</i>	Approximately 35 lbs. with CPU board and hard drive. Shipping weight: 55 lbs (actual weight depends on system configuration).

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	<b>Electrical and Power</b>
<i>Input AC</i>	100 ~ 240 V @ 50 ~ 60 Hz, full range (PFC).
<i>Output</i>	450 watt ATX power supply standard, upgradable to 500, 550 watt power supplies.

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	<b>Environmental and Safety</b>
<i>Temperature</i>	Operating 0~45 °C (32~113 °F) non-operating -20~80 °C (-4~176 °F)
<i>Humidity (non-condensing)</i>	Operating 20~90% @ 40°C, non-condensing; non-operating 10~95% @ 40°C, non-condensing
<i>Shock</i>	Operating: half-sine wave @ 10 G (TBD), non-operating: half-sine wave @ 30 G (TBD).
<i>Vibration</i>	Operating: 1 Grms, non-operating: 2 Grms..
<i>EMI/Safety</i>	CE, UL, FCC, RoHS.

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## Base System Configurations

### *Base System Configuration with Single Processor*

<i>System Chassis</i>	MPC-3900 portable chassis with 20.1" UXGA LCD monitor @ 1600x1200 resolution.
<i>CPU</i>	LGA 775 motherboard for Intel® Core™ 2 Dual processor. Intel Core 2 Dual processor E6400 @ 2.13 GHz.
<i>Chipset</i>	Intel® 975X / Intel® ICH7R Express Chipset.
<i>Main Memory</i>	1 GB DDR2 800 RAM in two 512 MB 240-pin modules. Two open sockets for additional memory. Up to 8 GB support.
<i>Graphics Controller</i>	PCI-Express x16 video card: ATI Radeon X1650XT or nVidia GeForce 7600GT based video card with 256MB video RAM.
<i>LAN</i>	Intel 82573L Gigabit Ethernet.
<i>Hard Drive Controller</i>	One 160 GB SATA-300 hard drive installed. ICH7R supports: 4x SATA 3Gb/s and Intel® Matrix Storage SATA RAID 0/1/0+1/5 Silicon Image 3132 controller supports: 4 x SATA 3Gb/s, two SATA connectors of the same area can support SATA RAID 0/1
<i>Audio</i>	Realtek ALC 882, 8-ch High Definition Audio CODEC, S/PDIF out interface Jack-Sensing & Enumeration Multi-Streaming
<i>External Panel I/O</i>	1x PS/2 Keyboard 1x PS/2 Mouse 4x USB 2.0 2x RJ-45 LAN 1x eSATA
<i>Internal I/O Connectors</i>	1x Floppy port 1x UDMA 100/66/33 connector 7x SATA 3Gb/s connectors 2x USB 2.0 headers 2x IEEE1394 headers 1x FP-Audio header 1x CD-IN
<i>Expansion Slots</i>	1 x PCI-E x 16, 1 x PCI-E x 1, 2 x PCI
<i>Operating System</i>	Microsoft Windows XP Pro SP2