

# MPC-9000 Portable Workstation

## Self-Contained Portable Computer with ATX Form-factor System Board



### Features

- » Ruggedized portable computer with anodized aluminum chassis.
- » Supports ATX form-factor desktop and server system boards and configurable with latest Intel multi-core processors.
- » Desktop system board supports up to 32GB of system memory. Server system board supports up to 256GB of system memory.
- » PCI and PCI-Express slots for add-on cards.
- » 17" active matrix flat panel display, 1280x1024 resolution.
- » Four drive bays for data storage devices.
- » Fold-down keyboard with touchpad pointing device.
- » 650-watt ATX power supply standard, upgradable to 850 watts.
- » Includes towing case with wheels.

### Self-contained Portable PC Solution

The MPC-9000 is a compact, self-contained portable computer ruggedized for mobile applications. The system enclosure is constructed of anodized aluminum alloy. Corner rubber bumpers adds to its protection against bumps and shock.

The enclosure features a 17-inch active matrix flat panel display, fold-down keyboard, touchpad mouse, four drive bays and a 650-watt ATX power supply. Internally, there is room for an ATX form-factor motherboard. A fully configured MPC-9000 provides a totally integrated portable system ready to be deployed in industrial environments such as telecom field service, data acquisition and test applications.

There is a durable, rubber-clad carrying handle on the top that makes carrying the system easy. A padded towing case with wheels and telescopic handle is included for long-distance transportation of the system.

### Expandable and upgradable system features

MPC-9000 is designed to take advantage of commercial-off-the-shelf components for its substantial expansion and upgrade capabilities. The motherboard supports current multi-core processors. There is PCI-Express x16 slot for upgrading graphics card when you need to run graphics intensive applications. Onboard SATA and RAID controllers give you the options of high data read/write speed and fault-tolerance. And four available drive bays lets you assemble your system with multiple hard drives RAID configuration.



# MPC-9000 Portable Workstation

## System Chassis Specifications

### System Chassis

<i>Chassis Construction</i>	Portable chassis constructed of aluminum alloy. Anodized aluminum exterior. Integrated flat panel display and fold-down keyboard. Rubber bumpers on corners. Rubber-clad carrying handle. Tilt-up feet under chassis and keyboard. Built-in speaker.
<i>Integrated Display</i>	17" TFT LCD, 1280 x 1024 resolution, 250 cd/m <sup>2</sup> , 350:1 contrast ratio.
<i>Storage Bays</i>	2x 5.25" externally accessible drive bays. 1x 3.5" externally accessible drive bay. 1x internal 3.5" drive bay. 1x slim-type optical disk drive bay.
<i>Add-on Card Support</i>	Chassis supports up to seven expansion cards. Number 1 slot* supports expansion card length (length of PCB) up to 8.25" Number 2 ~ 7* slot positions support expansion cards up to 13.3"
<i>Keyboard</i>	Fold-down 108-key keyboard with positive tactile feedback keyswitches. Integrated touchpad pointing device.
<i>Cooling</i>	Two 120mm case fans with filter.
<i>Dimensions</i>	17.2" (W) x 13.4" (H) x 9.3" (D).
<i>Weight</i>	Approximately 35 lbs. with motherboard, hard drive, and power supply installed

### Electrical and Power

<i>Input AC</i>	100 ~ 240 V @ 50 ~ 60 Hz, full range (PFC).
<i>Output</i>	650 watt ATX power supply standard, upgradable to 850 watt power supplies.

### Environmental

<i>Temperature</i>	Operating 0~50-C (32~122 -F); non-operating -20~60-C (-4~140 -F)
<i>Humidity (non-condensing)</i>	Operating: 5~95% @ 40-C.

### Note:

- \* In most ATX form-factor motherboards, number 1 slot location is usually occupied by a x1 PCI-Express slot. Number 2 ~ 7 slot locations are usually occupied by x16, x8, x4 PCI-Express, or PCI slots. Available slots for add-on cards depends on specific motherboard and system configuration.

# MPC-9000 Portable Workstation

## Quad-Core CPU System Configuration

### *System Configuration with Intel Quad-Core Desktop Processor*

<i>System Board</i>	Intel Z77 chipset LGA 1155 system board. Supports 4-Channel, dual-port Thunderbolt technology.
<i>Processor</i>	Intel Core i7-3770 Ivy Bridge 3.4GHz quad-core processor with Intel HD Graphics 4000.
<i>System Memory</i>	8GB dual channel DDR3 DRAM installed, up to 32GB.
<i>Graphics Controller</i>	Processor integrated Intel HD Graphics 4000.
<i>Installed Storage</i>	One 320GB 7200 RPM hard drive. One DVD +/- RW optical disk drive.
<i>Storage Device Controller</i>	4x SATA 3.0Gb/s ports. 4 x SATA 6.0Gb/s ports. RAID 0/1/5/10 support.
<i>LAN</i>	Broadcom BCM57781 LAN controller, 10/100/1000Mbps.
<i>Audio</i>	Realtek ALC898 7.1 channels audio controller.
<i>Expansion Slots</i>	2x PCI-E 3.0 x16 slots. 2x PCI-E 3.0 x1 slots. 2x PCI slots.
<i>External Panel I/O Ports</i>	1x PS/2 keyboard/mouse. 1x D-Sub. 1x HDMI. 1x DisplayPort Input for Thunderbolt port (TBT2 for test only). 2x USB 2.0. 4x USB 3.0. 1x eSATA 6Gb/s. 1x S/PDIF Out 5x audio ports.
<i>Operating System</i>	Microsoft Windows 7 Professional 64-bit.

### *Note*

Please use this as a starting point from which components can be modified to meet your application requirements.

# MPC-9000 Portable Workstation

## Six-Core CPU System Configuration

### *System Configuration with Intel Six-Core Server Processor*

<i>System Board</i>	Intel C602 chipset LGA 2011 system board. Supports Intel Xeon E5-2600/E5-1600 series processors.
<i>Processor</i>	Intel Xeon E5-2630 Sandy Bridge-EP 2.3GHz six-core processor.
<i>System Memory</i>	16GB ECC Registered DDR3 DRAM installed, up to 256GB.
<i>Graphics Controller</i>	Integrated Matrox G200eW with 16MB DDR2 video RAM.
<i>Installed Storage</i>	One Intel 335 Series 240GB SATA III MLC SSD. One 1TB 7200 RPM 32MB Cache SATA 6.0Gb/s hard drive. One DVD +/- RW optical disk drive.
<i>Storage Device Controller</i>	4x SATA 3.0Gb/s. 2 x SATA 6.0Gb/s. RAID 0/1/5/10 support (Windows). RAID 0/1/10 support (Linux).
<i>LAN</i>	Dual 10/100/1000Mbps Ethernet.
<i>Expansion Slots</i>	1x PCI-E 3.0 x16 slot. 1x PCI-E 3.0 x8 (in x16) slot. 1x PCI-E 2.0 x4 (in x16) slot. 3x PCI-X 64bit slots.
<i>External Panel I/O Ports</i>	2x PS/2 ports. 1x COM port. 1x D-Sub VGA port. 2x USB 2.0 ports.
<i>Operating System</i>	Microsoft Windows 7 Professional 64-bit.

### *Note*

Please use this as a starting point from which components can be modified to meet your application requirements.