

MPC-2900 Portable Workstation

Self-Contained Dual Processor Rugged Workstation



Features

- » *Ruggedized portable computer with anodized aluminum chassis.*
- » *Supports ATX and Extended ATX form-factor desktop and server system boards and configurable with latest Intel multi-core processors.*
- » *PCI and PCI-Express slots for add-on cards.*
- » *20" IPS flat panel display, 1600x1200 resolution.*
- » *Four removable drive bays supporting SATA or SCSI hard disks. Two 5.25" drive bay for optical disc drive and hard drive mobile rack. Two internal shock-mount 3.5" drive bays for hard drive and floppy drive.*
- » *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 Workstation Solution

The MPC-2900 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 four removable hard drives, and high end PCI-Express graphics.

The MPC-2900 comes in a road-ready lunchbox style portable enclosure. The rugged computer chassis is constructed of aluminum alloy. 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 650-watt or larger PSU for dual-processor systems. A rubber-clad carrying handle makes carrying the system easy, and a lug-gable carry case with wheels let you transport the system over long distances..

Expandable and Upgradable System Components

The MPC-2900 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 four removable drive bays supporting SATA or SCSI hard drives, so you can use integrated or hardware RAID controllers for RAID configurations. Video production and CAD professionals can utilize its PCI-Express x16 slot to add powerful GPU, and its 1600x1200 resolution, 20.1" LCD monitor for high resolution graphics applications.



MPC-2900 Portable Workstation

System Chassis Specifications

System Chassis

Chassis Construction 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.

Integrated Display 20" IPS LCD, 1600 x 1200 resolution.
300 cd/m², 800:1 contrast ratio.
178 degrees horizontal and vertical viewing angles.

Storage Bays 2x 5.25" externally accessible drive bays.
4x removable drive bays supporting 3.5" SATA or SCSI hard disks.
2x internal 3.5" drive bays.

Add-on Card Support 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"

Keyboard Fold-down 108-key keyboard with positive tactile feedback keyswitches. Integrated touchpad pointing device.

Cooling Two 100mm case fans with filter.

Dimensions 20.0" (W) x 15.25" (H) x 9.25" (D).

Weight Approximately 45 lbs. with motherboard, hard drive, and power supply installed.
Shipping weight: approximately 70 lbs (actual weight depends on system configuration).

Electrical and Power

Input AC 100 ~ 240 V @ 50 ~ 60 Hz, full range (PFC).

Output 650 watt ATX power supply standard, upgradable to 850 watt power supplies.

Environmental

Temperature Operating 0~50-C (32~122 -F); non-operating -20~60-C (-4~140 -F)

Humidity (non-condensing) Operating: 5~95% @ 40-C.



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MPC-2900 Portable Workstation

System Chassis Specifications

System Configuration with Two Intel Westmere Quad-Core Server Processors

<i>System Board</i>	Dual LGA1366 server board. Intel Intel 5500 & ICH10R chipset. Supports Intel Xeon 5500/5600 series processors.
<i>Processor</i>	Two Intel Xeon E5620 2.4GHz 12MB cache quad-core processors.
<i>System Memory</i>	12GB DDR3-1600 RDIMM main memory.
<i>System Memory Capacity</i>	6 DIMM sockets (3-channel per CPU, 3 DIMM per CPU). Maximum up to 96GB RDIMM or 24GB UDIMM.
<i>Graphics Controller</i>	Onboard video with Aspeed AST2050, 8MB VRAM.
<i>Installed Storage</i>	One 320GB 7200 RPM SATA 6.0Gb/s hard drive. One DVD +/- RW optical disk drive.
<i>Storage Device Controller</i>	Intel ICH10R SATA controller. 6 x SATA2 300MB/s ports. Intel Matrix Storage (For Windows Only). Support Software RAID 0, 1, 5, 10.
<i>LAN</i>	Dual Intel 82574L, 10/100/1000Mbps.
<i>Expansion Slots</i>	1x PCI-E x16 2.0. 2x PCI-Express x4 (x8 slots). 1x PCI 32bit/33 MHz. 1x MIO Slot for Audio card (PCI-E x1 is not supported).
<i>External Panel I/O Ports</i>	1x PS/2 keyboard/mouse port 2x USB 2.0 ports. 1x serial port. 1x VGA port. 2x RJ45 LAN 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-2900 Portable Workstation

System Chassis Specifications

System Configuration with Two Intel Sandy Bridge Six-Core Server Processors

<i>System Board</i>	Dual LGA2011 server board. Intel C602-A PCH chipset. Supports Intel Xeon E5-2600 series processors.
<i>Processor</i>	Two Intel Xeon E5-2620 Sandy Bridge-EP 2.0GHz 15MB L3 Cache 95W six-core processors..
<i>System Memory</i>	32GB DDR3-1600 quad channel main memory.
<i>System Memory Capacity</i>	8 DIMM sockets (4-channel per CPU, 4 DIMM per CPU). Maximum up to 256GB LRDIMM.
<i>Graphics Controller</i>	Onboard video with Aspeed AST2300 graphics controller, 16MB VRAM.
<i>Installed Storage</i>	One 320GB 7200 RPM 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. SATA RAID supports RAID 0/1/5/10
<i>LAN</i>	Dual Intel 82574L, 10/100/1000Mbps.
<i>Expansion Slots</i>	3x PCI-E x16 slots. 2x PCI-E x8 slots. 1x PIKE slot for storage expansion.
<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

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