**Rugged Portable Workstation with Slots** 



#### Features

- » Custom-build and expandable portable workstation.
- » Aluminum alloy construction.
- » Supports ATX, Micro-ATX form-factor system boards.
- » Supports a single multi-core CPU.
- » Supports PCI, PCI-X and PCI-Express slots for add-on cards.
- » Integrated 17" active matrix flat panel display.
- » Five drive bays: one 5.25" drive bay, two 3.5" drive bays, two slim-line drive bays for optical drive and floppy drive.
- » Integrated keyboard with touchpad pointing device.
- » 650-watt power supply standard, up to 850-watt.

### Self-contained Portable Workstation Solution

The MPC-1700 is a portable workstation designed to pack the highest desktop PC performance in a portable package. It comes in a road-ready lunchbox style portable enclosure constructed of aluminum alloy. Protective corner rubber bumpers help to absorb shock during transport, or in the field. It includes a spacious enclosure that supports a Micro-ATX or ATX motherboard, an integrated flat panel display, five drive bays for data storage devices, and expansion slots for add-on cards.

The keyboard folds out for use and includes a touchpad mouse. A 650-watt 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-1700 offers flexible system configuration using the latest COTS (commercial off-the-shelf) PC components. It packs powerful workstation-class computing capability using the latest multi-core processor technologies by Intel and AMD. The MPC-1700 supports up to three 3.5" hard disk drives in its drive bays. If a RAID configuration is required, it also supports up to six 2.5" hard drives. The MPC-1700 can be configured with an entry-level integratd graphics controller or a high end video card installed in one of its PCI-Express slots.



**System Chassis Specifications** 

#### System Chassis

| Chassis Construction | Portable lunchbox style 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 2x 6-watt output.  |
| Integrated Display   | 17" TFT LCD, 1280 x 1024 resolution, 250 cd/m², 350:1 contrast ratio.                                       |
| Storage Bays         | 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.  |
| 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 $^{\sim}$ 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 120mm case fans with filter.  |
| Dimensions           | 17.5" (W) x 13.5" (H) x 9.5" (D).   |
| Weight               | Fully assembled system weighs approximately 35 lbs.   |
|                      | Shipping weight: 55 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 20~90% @ 40-C, non-condensing;                         |
|                           | non-operating 10 $^{\sim}$ 95% @ 40-C, non-condensing            |
| Shock                     | Operating: 10g, 11ms.  |
|                           | non-operating: 50g, 11ms.  |
| Vibration                 | Operating: 20-60Hz, 0.075mm.                                     |
|                           | non-operating: 10-50Hz, 0.15mm                                   |
| EMI/Safety                | Power supply: CE, UL, FCC  |

#### 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.



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Quad-Core CPU System Configuration

|                           | System Configuration with Intel Quad-Core Desktop Processor                           |
|---------------------------|---|
| System Board              | Intel Z77 chipset LGA 1155 system board.  |
|                           | Supports 4-Channel, dual-port Thunderbolt technology.                                 |
| Processor                 | Intel Core i7-3770 Ivy Bridge 3.4GHz quad-core processor with Intel HD Graphics 4000. |
| System Memory             | 8GB dual channel DDR3 DRAM installed, up to 32GB.                                     |
| Graphics Controller       | Processor integrated Intel HD Graphics 4000.  |
| Installed Storage         | One 320GB 7200 RPM hard drive.  |
|                           | One DVD +/- RW optical disk drive.  |
| Storage Device Controller | 4x SATA 3.0Gb/s ports.  |
|                           | 4 x SATA 6.0Gb/s ports.   |
|                           | RAID 0/1/5/10 support.  |
| LAN                       | Broadcom BCM57781 LAN controller, 10/100/1000Mbps.                                    |
| Audio                     | Realtek ALC898 7.1 channels audio controller.   |
| Expansion Slots           | 2x PCI-E 3.0 x16 slots.   |
|                           | 2x PCI-E 3.0 x1 slots.  |
|                           | 2x PCI slots.   |
| External Panel I/O Ports  | 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<br>5x audio ports.  |
| Anarating Sustan          | Microsoft Windows 7 Professional 64-bit.  |
| Operating System          | microsoft windows / Frolessional 04-Dit.  |

## Note

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



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Six-Core CPU System Configuration

|                           | System Configuration with Intel Six-Core Server Processor     |
|---------------------------|---|
| System Board              | Intel C602 chipset LGA 2011 system board.                     |
|                           | Supports Intel Xeon E5-2600/E5-1600 series processors.        |
| Processor                 | Intel Xeon E5-2630 Sandy Bridge-EP 2.3GHz six-core processor. |
| System Memory             | 16GB ECC Registered DDR3 DRAM installed, up to 256GB.         |
| Graphics Controller       | Integrated Matrox G200eW with 16MB DDR2 video RAM.            |
| Installed Storage         | 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.                            |
| Storage Device Controller | 4x SATA 3.0Gb/s.  |
|                           | 2 x SATA 6.0Gb/s.   |
|                           | RAID 0/1/5/10 support (Windows).                              |
|                           | RAID 0/1/10 support (Linux).                                  |
| LAN                       | Dual 10/100/1000Mbps Ethernet.                                |
| Expansion Slots           | 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.   |
| External Panel I/O Ports  | 2x PS/2 ports.  |
|                           | 1x COM port.  |
|                           | 1x D-Sub VGA port.  |
|                           | 2x USB 2.0 ports.   |
| Operating System          | Microsoft Windows 7 Professional 64-bit.                      |

#### Note

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