

Healthcare & Medical Solutions

MPC Series & MMT Series



Design Concept

Axiomtek's medical touch panel computers (MPC series) and medical touch panel monitors (MMT series), are well-suited for applications like medical image processing, medical measuring instrument and mobile nursing cart. The MPC and MMT series deliver features such as power efficiency, sleek ID, IP65-rated front panel & IPX1-rated enclosure water/dust-proof design and operating without making any noise. They comply with ISO 13485: 2003, UL60601-1/EN60601-1, CE, and FCC Class B certifications to ensure operation safety.



Product Features

- 22" high brightness (300 nits) WSXGA TFT LCD
- Fanless socket P Intel® Core™2 Duo or Intel® Celeron® M processor
- ISO 13485: 2003, UL60601-1/EN60601-1, CE & FCC Class B certified
- Spill and dust resistant design (front panel: IP65, entire enclosure: IPx1)
- Built-in CD-ROM drive or combo drive (for MPC225-851-FL-AC-CD)
- 1 PCI or PCIe x4 expansion slot (for MPC225-851-FL-AC-PCI or MPC225-851-FL-AC-PCIe)
- Optional Bluetooth/RFID reader/internal WiFi (802.11 b/g)
- Built-in 1.3 mega pixels camera

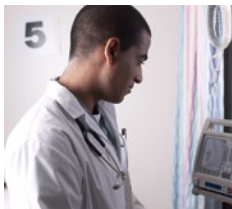
Applications

Image Display

The MPC series is the most reliable machine for medical and health application. Many of Axiomtek's MPC have been implemented into hospitals and clinics where doctors use the MPC to evaluate patient's health status.

Mobile Cart

The MPC series has also been used on medical mobile carts. The MPC225 acts as a command center and also has a printer as an output device. The UPS and battery allows this device to operate for more than 8 hours.



MPC Series

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| Features/Models | MPC225-851-FL | MPC175-851-FL |
|-------------------------------|---|---|
| CPU Level | Socket P Intel® Core™2 Duo/Intel® Celeron® M | Socket P Intel® Core™2 Duo/Intel® Celeron® M |
| System Memory | 2 x 204-pin DDR3 SO-DIMM max. up to 8 GB 667/800/1066 MHz | 2 x 204-pin DDR3 SO-DIMM max. up to 8 GB 667/800/1066 MHz |
| CPU FSB Frequency | 22" TFT, WSXGA+, 300 nits | 17" TFT, SXGA, 380 nits |
| Display | 2 x RS-232 (COM 2/3) | 1 x RS-232 (COM 1) |
| I/O | 1 x RS-232/422/485 (COM 1) 2 x 10/100/1000Mbps Ethernet 4 x USB 2.0 1 x Audio (Mic-in/Lin-out) 1 x VGA 1 x PCI or PCIe x4 slot | 2 x 10/100/1000Mbps Ethernet 2 x USB 2.0 1 x Audio (Mic-in/Lin-out) 1 x VGA 1 x PCI or PCIe x4 slot or slim type Combo |
| Storage | 1 x 2.5" HDD | 1 x 2.5" HDD |
| FDD | N/A | N/A |
| CD-ROM | 1 x slim type combo drive (for MPC225-851-FL-AC-CO) | 1 x slim type combo drive (for MPC175-851-FL-AC-CO) |
| Expansion Interface | 1 x PCI or 1 x PCIe x4 (for MPC225-851-FL-AC-PCI or MPC225-851-FL-AC-PCIe) | 1 x PCI or 1 x PCIe x4 (for MPC175-851-FL-AC-PCI or MPC175-851-FL-AC-PCIe) |
| Touchscreen | Resistive type | Resistive type |
| Power Supply | External 24VDC with AC/DC medical grade power adapter | External 24VDC with AC/DC medical grade power adapter |
| Watchdog Timer | 255 levels; 0-255 sec. | 255 levels; 0-255 sec. |
| Dimensions (W x D x H) | 573.5 x 75.9 x 398.9 mm (22.57" x 2.98" x 15.7") | 438 x 76.5 x 376.4 mm (17.24" x 3.01" x 14.81") |
| Weight (net/gross) | 10.58 kg (23.32 lb)/15.16 kg (33.42 lb) | 7.65 kg (16.85 lb)/9 kg (19.84 lb) |
| Operating Temperature | 0°C - +40°C (32°F - 104°F) | 0°C - +40°C (32°F - 104°F) |
| Certification | CE, FCC class B, EN60601-1, UL60601-1 | CE, FCC class B, EN60601-1, UL60601-1 |



| Features\Models | MPC170-831-FL | MPC170-831 |
|-------------------------------|--|--|
| CPU Level | LV Intel® Core™2 Duo 1.5 GHz (L7400) / ULV Intel® Celeron® M 1.06 GHz (423) | Socket M Intel® Core™2 Duo/Intel® Celeron® M |
| System Memory | 2 x 240-pin DDR2 DIMM max. up to 4 GB 533/667 MHz | 2 x 240-pin DDR2 DIMM max. up to 4 GB 533/667 MHz |
| CPU FSB Frequency | 17" TFT, SXGA, 380 nits | 17" TFT, SXGA, 380 nits |
| Display | 2 x RS-232 (COM 2/3) | 2 x RS-232 (COM 2/3) |
| I/O | 1 x RS-232/422/485 (COM 1) 2 x 10/100/1000Mbps Ethernet 4 x USB 2.0 2 x PS/2 keyboard/mouse 1 x Audio (Mic-in/Line-out) 1 x VGA 2 x IEEE 1394a | 1 x RS-232/422/485 (COM 1) 2 x 10/100/1000Mbps Ethernet 4 x USB 2.0 2 x PS/2 keyboard/mouse 1 x Audio (Mic-in/Line-out) 1 x VGA 2 x IEEE 1394a |
| Storage | 1 x 2.5" HDD | 1 x 2.5" HDD |
| FDD | N/A | N/A |
| CD-ROM | 1 x combo drive | 1 x combo drive |
| Expansion Interface | 1 x PCI | 1 x PCI |
| Touchscreen | Resistive type (default COM 4) | Resistive type (default COM 4) |
| Power Supply | Medical grade AC 90-264V, ATX 150W 18-36VDC, 10-5A | Medical grade AC 90-264V, ATX 150W |
| Watchdog Timer | 255 levels, 0-255 sec. | 255 levels, 0-255 sec. |
| Dimensions (W x D x H) | 439 x 92 x 376.5 mm (17.28" x 3.62" x 14.82") | 439 x 92 x 376.5 mm (17.28" x 3.62" x 14.82") |
| Weight (net/gross) | 9 kg (19.84 lb)/13.7 kg (30.2 lb) | 9 kg (19.84 lb)/13.7 kg (30.2 lb) |
| Operating Temperature | 0°C - +40°C (32°F - 104°F) | 0°C - +40°C (32°F - 104°F) |
| Certification | CE, FCC class B, EN60601-1, UL60601-1 | CE, FCC class B, EN60601-1, UL60601-1 |

MMT Series

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| Features\Models | MMT225 | MMT175 |
|--------------------------------------|--|---|
| Display type | Plastic front bezel (Front panel: IP65, whole enclosure: IPX1) 22" TFT, WSXGA+, 16:10 | Plastic front bezel (Front panel: IP65, whole enclosure: IPX1) 17" TFT, SXGA, 4:3 |
| Mar. colcors | 16.7M473.76 x 296.1 | 16.7M337.92 x 270.33 |
| Active area (mm) | 1680 x 1050 | 1280 x 1024 |
| Mar. resolution | VGA 640 x 350 (70 Hz) | VGA 640 x 350 (70 Hz) |
| Display mode | VGA 720 x 400 (70Hz) VGA 640 x 480 (60/72/75 Hz) SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/72/75 Hz) SXGA 1280 x 1024 (60/72/75 Hz) WSXGA 1680 x 1050 (60/72/75 Hz) | VGA 720 x 400 (70Hz) VGA 640 x 480 (60/72/75 Hz) SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/72/75 Hz) SXGA 1280 x 1024 (60/72/75 Hz) |
| Pixel pitch | 0.282 x 0.282 | 0.264 x 0.264 |
| Backlight | CCFL | CCFL |
| Backlight MTBF (hrs) | 50,000 | 50,000 |
| View angle (H/V) | 178° / 178° | 160° / 160° |
| Response time | 20ms | 5ms |
| Contrast ratio | 1000 (TYP.) | 800 (TYP.) |
| Brightness (cd/m²) | 300 nits | 380 nits |
| Display control | OSD | OSD |
| I/O connectors | 1 x Audio (Line-out/Mic-in) 1 x VGA 1 x Video 1 x S-Video 1 x DVI 3 x USB (1 slave, 2 host) | 1 x Audio (Line-out/Mic-in) 1 x VGA 1 x Video 1 x S-Video 1 x DVI 3 x USB (1 slave, 2 host) |
| Touchscreen | Resistive type | Resistive type |
| Power Adapter | Lock type external 24V _{DC} with AC/DC medical grade power adapter | Lock type external 24V _{DC} with AC/DC medical grade power adapter |
| Dimensions (W x D x H) | 573.5 x 68.5 x 399 mm (22.58" x 2.69" x 15.71") | 438 x 68.5 x 376.4 mm (17.24" x 2.69" x 14.81") |
| Weight (net/gross) | 8.48 kg (18.69 lb)/13.02 kg (28.7 lb) | 8.46 kg (18.52 lb)/10.96 kg (24.16 lb) |
| Operating Temperature | 0°C - +45°C (32°F - 104°F) | 0°C - +45°C (32°F - 104°F) |
| Certification | CE, FCC classB, EN60601-1, UL60601-1 | CE, FCC classB, EN60601-1, UL60601-1 |