MDPC-4090CDL

Medical Desktop Computer with 7" TFT LCD

NEW

Features

- Pentium® 4 M CPU up to 2.2 GHz
- Integrated ATI M9 graphic controller with 64 MB Video RAM
- Support for up to 2 digital monitors at a time
- Support for independent resolutions for each display
- IEEE 1394a x 1; USB 2.0 x 6 (front-accessible USB x 2)
- Gigabit LAN port x 1
- Built-in slim keyboard and touchpad drawer
- EN60601-1/ UL60601-1 certified

CE FCC

Introduction

The MDPC-4090CDL is a multimedia Pentium® 4 M based computer that is designed to serve as a medical grade image processing/analysis platform. It is a PC-based system with an onboard high-performance ATI M9 graphic controller that supports dual independent displays with resolutions of up to 1600 x 1200. The MDPC-4090CDL has numerous COM ports and USB 2.0 interfaces, a PCI extended bus, and a built-in Gigabit LAN for convenient and high-speed connectivity. The MDPC-4090CDL also has a built-in 7" LCD with slim keyboard/touchpad drawer. The MDPC-4090CDL is a reliable, cost-effective solution for medical system integrators.

Specification

General

- **Dimension (W x H x D)** 433 x 156 x 379 mm (17.04" x 6.14" x 14.92")
- **Weight** 16 kg (35.24 lb)
- **Power Supply** AC model 180 watt
  Input 100 ~ 240 V_{AC},
  4/2 A max. @ 50 ~ 60 Hz
  Output +5 V @ 12 A, +12 V @ 12 A,
  +3.3 V @ 16.8 A, +5 Vsb @ 2.0 A,
  -12 V @ 0.8 A
- **Fan Dimensions** 80 x 80 x 25 mm (3.15" x 3.15" x 0.98")
  (L x W x H)

Standard PC Function

- **CPU** Socket 478 Intel® Pentium® 4 Processor-M
  up to 2.2 GHz
  (long term support for 1.7 GHz and 2.2 GHz)
- **Chipset** 845E
- **Memory** DDR 200/266 SDRAM, 184-pin DIMM socket x 2, Max. 2 GB
- **IDE Bus** ATA/100
- **HDD** One 3.5" IDE HDD
- **CD-ROM** 5.25" CD-ROM, (DVD+-RW optional)
- **CompactFlash** Type I/II x 1
- **I/O Ports & Speakers** RS-232 x 3, RS-232/422/485 x 1, parallel port x 1,
  USB 2.0 port x 6, IEEE 1394a port x 1,
  PS/2 mouse and keyboard interface x 1
  Mic-in, Line-in, Line–out, 6 W speakers x 2
- **Network (LAN)** 10/100Base-T Ethernet interface x 1; Gigabit LAN x 1
- **Bus Expansion** PCI 2.2 expansion slot x 1
- **Peripherals** US type 88-key slim keyboard and touchpad

General Specifications of Front Panel Display

- **Display Type** 7" TFT color LCD
- **Resolution** 800 x 480 (native resolution)
- **Colors** 262 K
- **Dot Size (mm)** 0.19 x 0.19
- **Viewing Angle (H/V)** 140/120°
- **Luminance** 400 cd/m²
- **Contrast Ratio** 300 : 1
- **LCD MTBF** 50,000 hours
- **Backlight Lifetime** 50,000 hours
- **Graphic Card** ATI Radeon® 7000 PCI card
- **Tilt Angle** 20°

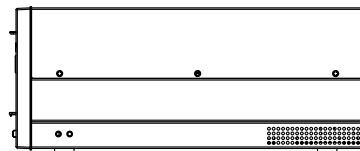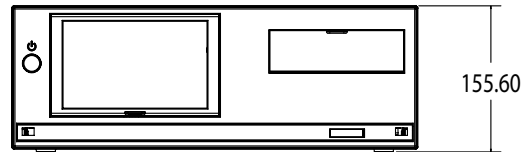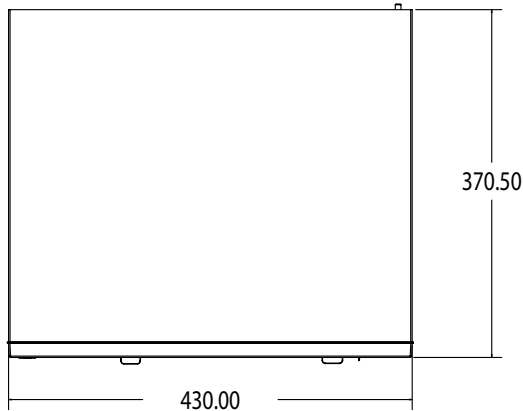### Specification of Integrated Graphic Chip

- **Integrated Graphic Chip** ATI Mobility™ Radeon® 9000 (M9)
- **Integrated Video RAM** 64 MB
- **Maximum Resolutions** 1600 x 1200 at 60 Hz
  (Per Display)
- **Video Out** Support 24-bit digital output (DVI-D port x 2)
- **Dual Independent Display Support**

Environmental Specifications

- **Temperature** 0 ~ 40° C
- **Relative Humidity** 10 ~ 95% @ 40° C (non-condensing)
- **Shock** 20 G peak acceleration (11 ms duration)
- **Certification** CE, FCC, UL60601-1 and EN60601-1 approved
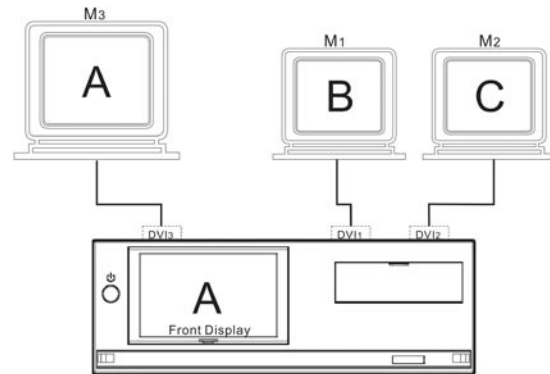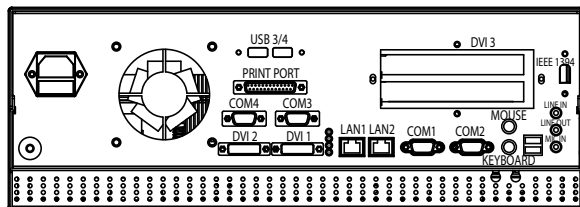
Dimensions

Unit: mm

370.50

430.00

155.60

Ordering Information

Part No.	Description
MDPC-4090CDLE	MDPC-4090 bare w/ 7" LCD, keyboard/touchpad drawer, CD-ROM drive
MDPC-4090DWLE	MDPC-4090 bare w/ 7" LCD, keyboard/touchpad drawer, DVD+-RW drive

Integrated I/O

USB 3/4　DVI 3　IEEE 1394
PRINT PORT
COM4　COM3
MOUSE　LINE IN　LINE OUT　MIC IN
DVI 2　DVI 1　LAN1 LAN2　COM1　COM2
KEYBOARD

Video Outputs

M3　A
M1　B
M2　C

DVI3　DVI1　DVI2

A
Front Display

Maximum Resolution

- Front display supports up to 800 x 480
- M3 (monitor3) supports up to 800 x 600
- M1 (monitor1) and M2 (monitor2) supports up to 1600 x 1200
- M3 and front display show the same image