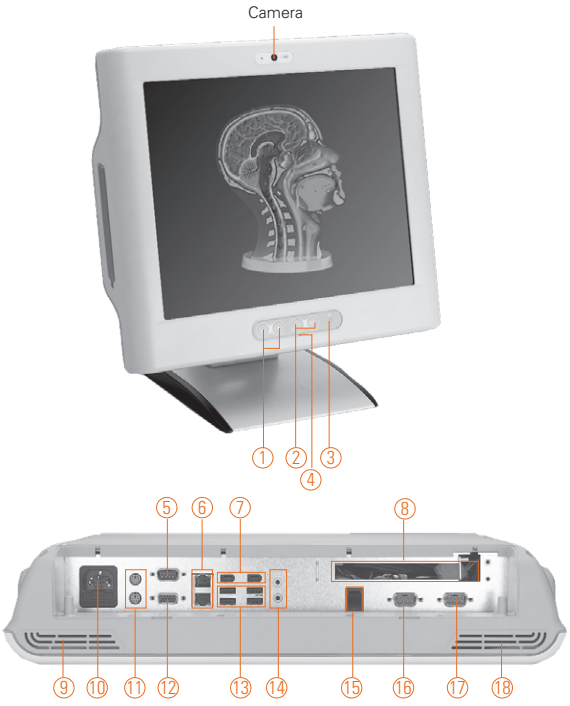
MPC170-831-FL

17" TFT Medical Grade Panel Computer
Supporting Intel® Core™2 Duo Processor

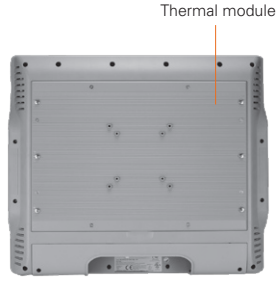


1. Brightness adjust buttons
2. Volume adjust buttons
3. Power LED
4. MIC
5. COM 1 (RS-232/422/485)
6. Ethernet x 2
7. IEEE 1394a x 2
8. PCI slot
9. Speaker(R)
10. AC inlet
11. PS/2 K/B+M/S x 2
12. VGA
13. USB 2.0 x 4
14. Audio (Mic-in/Line-out)
15. Power switch
16. COM 2 (RS-232)
17. COM 3 (RS-232)
18. Speaker(L)

IP65 IPX1 Fanless Low Power DualView

Features

- 17" high brightness (380 nits) SXGA TFT LCD
- Fanless operation with LV Intel® Core™2 Duo or ULV Intel® Celeron® M processor
- UL60601-1/EN60601-1, CE & FCC class B certified
- Water/dust-proof design (front bezel: IP65, full enclosure: IPX1)
- Dual 10/100/1000Mbps Ethernet ports
- Built-in Super Multi drive
- 1 PCI expansion slot
- Built-in 1.3 mega pixels camera



▲ Rear view

Introduction

The MPC170-831-FL is a 17-inch slim TFT fanless medical grade panel computer, which is well-suited for applications like medical image processing and medical measuring instrument. Especially designed for the medical environment, it adopts IPX1 waterproof design which protects the entire system from outside liquid, preventing system from crashing. Powered by socket M Intel® Core™2 Duo processor and PCI expansion slot, the MPC170-831-FL is definitely the best choice for your medical panel computer.

This platform complies with UL60601-1/EN60601-1, CE, FCC Class B certifications to ensure medical operation safety. It is outfitted with 17-inch SXGA TFT LCD display. Additionally, the MPC170-831-FL offers flexible CPU selection with socket type which reduces cost, increases convenience over onboard CPU, and still maintains a fanless operation and long product life cycle. For expansion capability, the unit supports one PCI slot for video capture card, data acquisition card and more. The built-in 1.3 mega pixels camera, microphone and stereo speakers allows medical professionals to execute remote operation. Besides, the dual Gigabit Ethernet ports provide extremely high speed of Ethernet and high reliable redundancy host connection.

Specifications

Front Bezel	Plastic ABS	
LCD Panel	Display Type	17" SXGA TFT
	Brightness (cd/m^2)	380 nits
	Resolution	1280 x 1024
	Viewing Angle (H/V)	160°/160°
Main System	CPU	Fanless operation w/ LV Intel® Core™2 Duo L7400 or ULV Intel® Celeron® M 423
	Chipset	Intel® 945GME GMCH Gen 3.5
	System Memory	2 x DDR2 DIMM memory max. up to 4 GB (The actual max. capacity will be less depending on system configuration)
	BIOS	Phoenix-Award 4Mbit with RPL/PXE LAN Boot ROM, SmartView and customer CMOS backup
	Storage	1 x 2.5" SATA HDD
	Optical Drive	1 x Super Multi drive
	Watchdog Timer	255 levels, 0~255 sec.
	Onboard Graphics	Intel® 945GME

* All specifications and photos are subject to change without notice.

Specifications

I/O Connector	2 x RS-232 (COM 2/3) 1 x RS-232/422/485 (COM 1) 4 x USB 2.0 2 x PS/2 mouse/keyboard 1 x Audio (Mic-in/Line-out) 1 x VGA out (supports DualView) 2 x IEEE 1394a 2 x 10/100/1000Mbps Ethernet
Expansion Interface	1 x PCI slot
Camera	1 x 1.3 mega pixels camera
Touchscreen	Resistive type Light transmission: 80% Touch life 35 million touches
Power Supply	Medical grade AC 90~264V, ATX 150W power supply ATX 150W DC power supply; input 18~36VDC
Dimensions	439 mm (17.28") (W) x 92 mm (3.6") (D) x 376.5 mm (14.82") (H)
Packing Dimensions	610 mm (24.02") (W) x 260 mm (10.24") (D) x 590 mm (23.23") (H)
Weight (net/gross)	9 kg (19.84 lb)/13.7 kg (30.2 lb)
Environment	Operating temperature: 0° ~ +40°C (32°F ~ 104°F) Storage Temperature: -20°C ~ +60°C (-4°F ~ +140°F) Relative humidity: 10% ~ 95%, non-condensing
Certification	CE, FCC class B, EN60601-1, UL60601-1

Optional Accessories

E202003330	VM-101 VESA ARM (clamp type)
E202003329	VM-105 VESA ARM (wall mount type)
E228170100	17" stand kit

Optional OS Installation

Windows® XP
Linux kernel 2.6

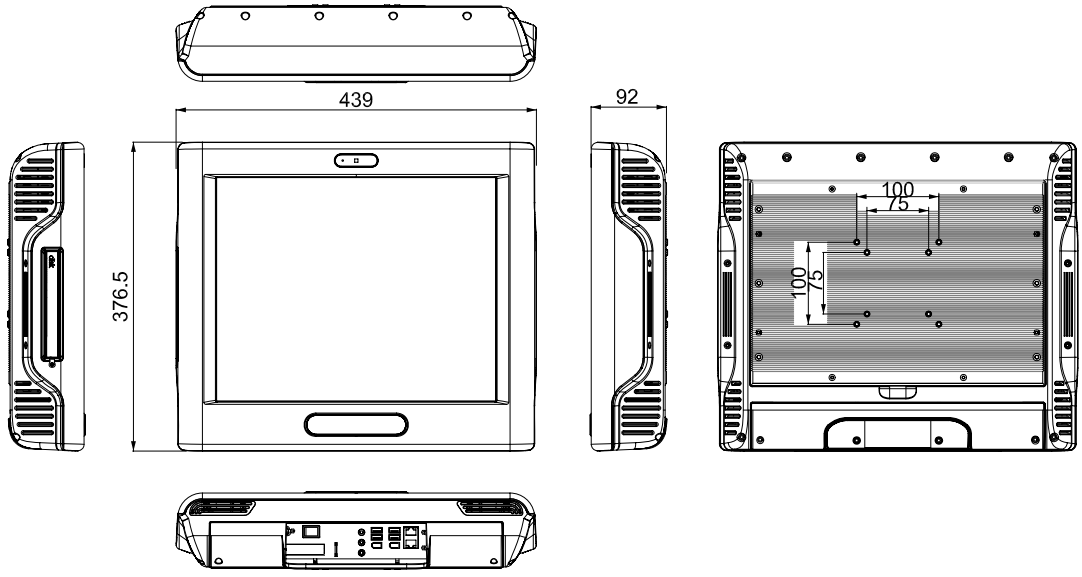
Ordering Information

AC Power Version	
MPC170-831-FL1.5G -AC-DVDRW	17" TFT fanless medical grade panel computer with LV Intel® Core™2 Duo 1.5 GHz (L7400) processor, resistive T/S, Super Multi drive
MPC170-831-FL1.06G -AC-DVDRRW	17" TFT fanless medical grade panel computer with ULV Intel® Celeron® M 1.06 GHz (423) processor, resistive T/S, Super Multi drive
MPC170-831-FL1.5G -AC w/o DVDROM	17" TFT fanless medical grade panel computer with LV Intel® Core™2 Duo 1.5 GHz (L7400) processor, resistive T/S, w/o Super Multi drive
MPC170-831-FL1.06G -AC w/o DVDRW	17" TFT fanless medical grade panel computer with ULV Intel® Celeron® M 1.06 GHz (423) processor, resistive T/S, w/o Super Multi drive
DC Power Version	
MPC170-831-FL1.5G -DC-DVDRW	17" TFT fanless medical grade panel computer with LV Intel® Core™2 Duo 1.5 GHz (L7400) processor, resistive T/S, Super Multi drive
MPC170-831-FL1.06G -DC-DVDRW	17" TFT fanless medical grade panel computer with ULV Intel® Celeron® M 1.06 GHz (423) processor, resistive T/S, Super Multi drive
MPC170-831-FL1.5G -DC w/o DVDRW	17" TFT fanless medical grade panel computer with LV Intel® Core™2 Duo 1.5 GHz (L7400) processor, resistive T/S, w/o Super Multi drive
MPC170-831-FL1.06G -DC w/o DVDRW	17" TFT fanless medical grade panel computer with ULV Intel® Celeron® M 1.06 GHz (423) processor, resistive T/S, w/o Super Multi drive

* Specification and certifications are based on options and may vary.

**Super Multi drive includes DVD-R, DVD-RW and DVD-RAM.

Dimensions



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