MPC225-873

22" WSXGA TFT Fanless Medical Grade Panel Computer with 3rd Gen
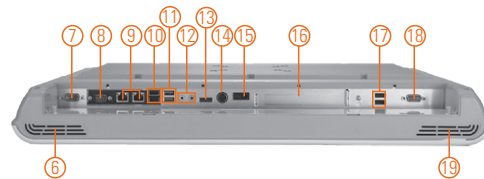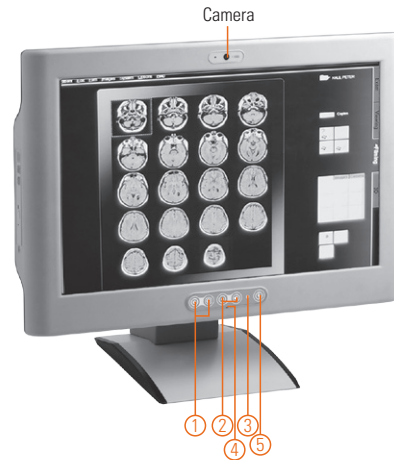Intel® Core™ i7/i5/i3 & Celeron® Processor

Features

- 22" (250 nits) WSXGA TFT LCD
- Socket rPGA988B 3rd gen Intel® Core™ i7/i5/i3 (Ivy Bridge) & Celeron® processor
- Intel® QM77 chipset
- Isolated COM, USB and Ethernet ports
- USB 3.0 supported
- IP65 front bezel and IPX1 full enclosure water/dust proof design
- 1 PCI or PCIe x4 and 2 PCIe Mini Card slots
- Optional Bluetooth/Wi-Fi (802.11 a/b/g/n)
- Built-in 5 mega pixels camera
- Touch screen on/off key for clean usage
- UL 60601-1, EN 60601-1, CE & FCC class B certified
- Supports optional wall mount/VESA arm/desktop stand

Camera

▲ Rear view   ▲ Slim design

IP65 | IPX1 | Fanless | Low Power | DualView | DDR3

1. Brightness adjust +/-
2. Volume adjust
3. Power LED
4. Mic
5. Touch on/off button
6. Speaker (R)

7. COM 2 (RS-232)
8. Isolated COM 1 (RS-232/422/485)
9. Isolated Ethernet x 2
10. Isolated USB x 2
11. USB 3.0 x 2
12. Audio (Line-out/Mic-in)

13. DisplayPort
14. Power connector
15. Power switch
16. PCI or PCIe slot
17. USB 2.0 x 2
18. COM 3 (RS-232)
19. Speaker (L)

Introduction

The MPC225-873 is a 22-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. The Isolated COM/USB/LAN port design provides electric leakage protection in medical environment. Powered by socket rPGA988B 3rd Generation Intel® Core™ i7/i5/i3 processor and PCI expansion slot, the MPC225-873 is definitely the best choice for your medical computing platform.

This medical panel platform complies with UL 60601-1, EN 60601-1, CE, FCC Class B certifications to ensure medical operation safety. It is outfitted with 22-inch wide view angle WSXGA TFT LCD display. Additionally, the MPC225-873 offers flexible CPU selection with socket type which reduces cost, increases convenience over onboard CPU, and still maintains a fanless operation as well as long product life cycle. For expansion capability, the unit supports one PCI or PCIe x4 slot and two mini card slots for video capture card, data acquisition card, Wi-Fi, mSATA and more. The built-in 5 mega pixels camera, microphone and stereo speakers allow medical professionals to execute remote operation. Bluetooth is an available option for wireless connection with medical peripheral devices. Optional Wi-Fi (802.11 a/b/g/n) allows wireless real-time connection of patient record for assessment. To improve patient treatment accuracy, the optional RFID (radio frequency identification) offers an efficient way to validate patient identification and give proper treatment.

Specifications

Front Bezel	Plastic ABS	
LCD Panel	Display Type	22" WSXGA TFT
	Brightness (cd/m^2)	250 nits
	Resolution	1680 x 1050
	Viewing Angle (H/V)	178°/178°
Main System	CPU	Socket rPGA988B 3rd generation Intel® Core™ i7/i5/i3 & Celeron® processor, TDP up to 35 W
	Chipset	Intel® QM77
	System Memory	2 x 204-pin DDR3-1333 SO-DIMM, up to 16GB
	BIOS	AMI UEFI BIOS with OA 3.0 built
	Storage	1 x 2.5" 7/9.5mm SATA HDD 1 x mSATA SSD (optional)
	Optical Drive	1 x Super Multi drive (optional)
	Watchdog Timer	255 levels, 0~255 sec.
	Onboard Graphics	Intel® HD Graphic

Specifications

I/O Connector	2 x RS-232 (COM 2/3) 1 x RS-232/422/485 (COM 1 w/ isolated 4KV) 2 x 10/100/1000 Mbps Ethernet (isolated 4KV) 2 x USB 2.0 (isolated 4KV) 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Audio (Mic-in) 1 x DisplayPort
Expansion Interface	1 x PCI or 1 x PCIe x4 slot (optional) 2 x PCI Express Mini Card slot
Speaker	2 x 2W
Camera	1 x 5M pixels camera
Touchscreen	5-wire resistive type
Function Key	LCD brightness up/down, audio volume up/down, touch off/on
Power Supply	External 24 VDC with AC/DC medical grade power adapter
Dimensions	573.5 mm (22.57") (W) x 75.9 mm (2.98") (D) x 398.9 mm (15.7") (H)
Packing Dimensions	730 mm (28.74") (W) x 240 mm (9.45") (D) x 650 mm (25.59") (H)
Weight (net/gross)	10.58 kg (23.32 lb)/15.16 kg (33.42 lb)
Environment	Operating temperature: 0°C ~ +40°C (+32°F ~ +104°F) Relative humidity: 20% ~ 90% @ 40°C; non-condensing
Certificate	CE, FCC class B, EN 60601-1, UL 60601-1

Ordering Information

MPC225-873-UL-NP-DRW	22" WXGA fanless medical touch panel computer with Intel® Core™ processor, 5-wire reisitive touch screen, super multi drive, AC-DC 150W medical grade power adapter (screw type connector), EMI class B, UL 60601-1 and EN 60601-1 certified
MPC225-873-UL-NP w/o DRW	22" WXGA fanless medical touch panel computer with Intel® Core™ processor, 5-wire resistive touch screen, AC-DC 150W medial gradepower adapter (screw type connector), EMI class B, UL 60601-1 and EN 60601-1 certified

* Specifications and certifications may vary contingent on options.
**Super Multi drive includes DVD-R, DVD-RW and DVD-RAM.

Optional Accessories

E202003330	VM-101 VESA ARM (clamp type)
E202003329	VM-105 VESA ARM (wall mount type)
E228170100	22" stand kit

Optional OS Installation

Windows® XP
Windows® 7
WES7
Windows® 8.1
WE8S

Dimensions