

# MPC175-873

17" TFT Fanless Medical Grade Panel Computer with Intel® Core™ i7/i5/i3 & Celeron® Processor



- |                              |                                    |                      |
|------------------------------|------------------------------------|----------------------|
| 1. Brightness Adjust buttons | 7. Isolated COM 1 (RS-232/422/485) | 13. Power connector  |
| 2. Volume adjust buttons     | 8. Isolated Ethernet x 2           | 14. Power switch     |
| 3. Power LED                 | 9. Isolated USB x 2                | 15. PCI or PCIe slot |
| 4. MIC                       | 10. USB 3.0 x 2                    | 16. Speaker (L)      |
| 5. Touch on/off button       | 11. Audio (Line-out/Mic-in)        |                      |
| 6. Speaker (R)               | 12. DisplayPort                    |                      |



## Introduction

The MPC175-873 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. 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 MPC175-873 is definitely the best choice for your medical platform.

This medical panel platform complies with UL60601-1, EN60601-1, CE, FCC Class B certifications to ensure medical operation safety. It is outfitted with 17-inch wide view angle SXGA TFT LCD display. Additionally, the MPC175-873 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 optional one PCI or PCIe x4 slot, and two mini card slot for video capture card, data acquisition card, WIFI, 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 WiFi (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.

## Features

- 17" (350 nits) SXGA TFT LCD
- Socket rPGA988B 3rd Generation Intel® Core™ i7/i5/i3 (Ivy Bridge) & Celeron® processor
- Intel® QM77 chipset
- Isolated COM, USB and Ethernet ports
- USB 3.0 supported
- Water/dust-proof design (front bezel: IP65, full enclosure: IPX1)
- Optional 1 x PCI or PCIe x4 expansion slot
- Optional Bluetooth/WiFi (802.11 a/b/g/n)
- Built-in 5 mega pixels camera
- Touch screen on/off key for clean usage
- UL60601-1/EN60601-1, CE & FCC class B certified
- Supports wall mount, VESA arm and desktop stand



▲ Side view



▲ Rear view

## Specifications

Front Bezel	Plastic ABS		
LCD Panel	Display Type	17" SXGA TFT	
	Brightness (cd/m <sup>2</sup> )	350 nits	
	Resolution	1280 x 1024	
	Viewing Angle (H/V)	178°/178°	
Main System	CPU	Socket rPGA988B 3rd Generation Intel® Core™ i7/i5/i3 & Celeron® processor, TDP up to 35W	
	Chipset	Intel® QM77	
	System Memory	2 x 204-pin DDR3 SO-DIMM max. up to 16 GB	
	BIOS	AMI UEFI BIOS with OA 3.0 built	
	Storage	1 x 2.5" 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	1 x RS-232/422/485 (COM 1 w/ isolated 4KV) 2 x 10/100/1000Mbps Ethernet (isolated 4KV) 2 x USB 2.0 (isolated 4KV) 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 PCIe 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 24VDC with AC/DC medical grade power adapter
Dimensions	438 mm (17.24") (W) x 76.5 mm (3.01") (D) x 376.4 mm (14.81") (H)
Packing Dimensions	610 mm (24.02") (W) x 260 mm (10.24") (D) x 590 mm (23.23") (H)
Weight (net/gross)	8.0 kg (17.63 lb)/ 11.9 kg (26.23 lb)
Environment	Operating temperature: 0°C ~ +40°C (+32°F ~ +104°F) Storage temperature: 0°C ~ +40°C (+32°F ~ +104°F) Relative humidity: 20% ~ 90% @ 40°C; non-condensing
Certificate	CE, FCC class B, EN60601-1, UL60601-1

## Ordering Information

MPC175-873	17" TFT 3rd Gen Intel® Core™ i7/i5/i3 & Celeron® processor fanless medical grade panel computer with resistive T/S, PCIe or PCI expansion or Super Multi drive
------------	--

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

\*\*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	17" stand kit

## Optional OS Installation

Windows® XP
Windows® 7
WES7
Windows® 8.1
WEBS



▲ Stand kit

## Dimensions

