

WMP-249

24" -Wide Latest Fanless Core i Haswell Multi Touch Medical Panel PC



Key Features



- Intel® 4th generation Core i7/i5/i3 processors
- Projective capacitive multi-touch screen (10 fingers)
- Fanless operating with reliable thermal design
- Seamless on the front side and super slim 65.6mm only
- Easy wipe surfaces with no internal corners
- IP65 at front side, IPx1 for whole system
- Medical 60601-1 3rd edition certification
- Anti-bacteria (MRSA) plastic housing
- DVI-D video input for direct digital display
- Friendly design of LED reading light bar
- Optional for 4KV LAN/COM/USB isolation card
- Optional for built-in battery backup function
- Optional optical device (DVD or DVD-RW)
- Optional for TPM module design

Main System

CPU	BGA1364 for 4th generation Intel® mobile Core i5/i3 processor (25W max.)
Chipset	Intel® DH82QM87 PCH
VGA	Intel® integrated HD Graphics 4600
Memory	Two 1600 MHz DDR3/DDR3L SODIMM socket support dual Channel, non-ECC, up to 16GB
Serial ATA	SATA 3, 600 MB/s transfer rate x 2 support RAID 0, 1, 5; mSATA via Mini-PCIe (Thru SATA III) x 1
USB	x 9 (socket), (USB 3.0 external x 4, USB 2.0 internal x 5)
COM	x 2 (RS-232 x 1, RS-232/422/485 x 1)
Audio	Realtek ALC262 Audio Codec, 5 + 5 watts power amplifier
LAN	Marvell 88E8071 Giga LAN x 2
BIOS	· Brand: AMI (UEFI) · Flash ROM size: 8M byte · Support RTC wakeup /Wake on LAN /Power on after power failure/PnP/ACPI/RTC
Speaker	5W x 2

LCD Panel

Size	24" wide 16:9
Resolution	Full HD 1920 x 1080
Brightness	250 nits
Contrast	3000:1 (Typ)
Color numbers	16.7M colors (true 8-bit)
Viewing angle	178 (H) / 178 (V)
Response time	12 ms (Typ)
Backlight	LED, 30,000 hours life time

Touch Panel

Type	Front full flat touch panel
Technology	Projective capacitive touch panel (10 fingers)
Light Transmission	90% ± 3%
Hardness	7H pencil, pressure 750g/45°
Touch stylus	Finger, thin gloved hand or conductive stylus
Resolution	100ppi to 25ppi Based WIN7 definition ppi (Pixel per inch)
Life time	100M times

Storage & Expansion

HDD	2.5" SATA HDD drive bay x 1, mSATA via Mini PCI-E (Thru SATA III) x 1
2nd storage	DVD drive / or 2nd HDD / or Card reader x 1
Expansion slot	· PCI-E x 16 expansion slot x 1 or PCI 2.2 x 1 · Mini PCIe x 2 (52 pin card-edge type)

I/O & Control Keys

USB	USB 3.0 x 4, USB 2.0 x 2 (Default)
COM	RS232 x 1, RS232/RS422/RS485 x 1 (RS-485 auto flow support)
LAN	RJ-45 x 2, Gigabit
Video-out	DP x 2
Video-in	DVI-D x 1
Audio	Line-out, Microphone-in (3.5 mm phone-jack)
Power input	DC-in x 1, 6V~32V
Control keys	· Front side, projected capacitive type · Power, brightness, audio volume, read light, display, backlight, touch on/off, programmable button

Power

Power adaptor	AC input 90 ~ 264V / 47 ~ 63 Hz / DC output 12V, medical grade, 1.2m DC cable
Power consumption	65 watts (typical, without any add-ons) TBC
Internal battery (optional)	Built-in battery backup function (by EC solution)

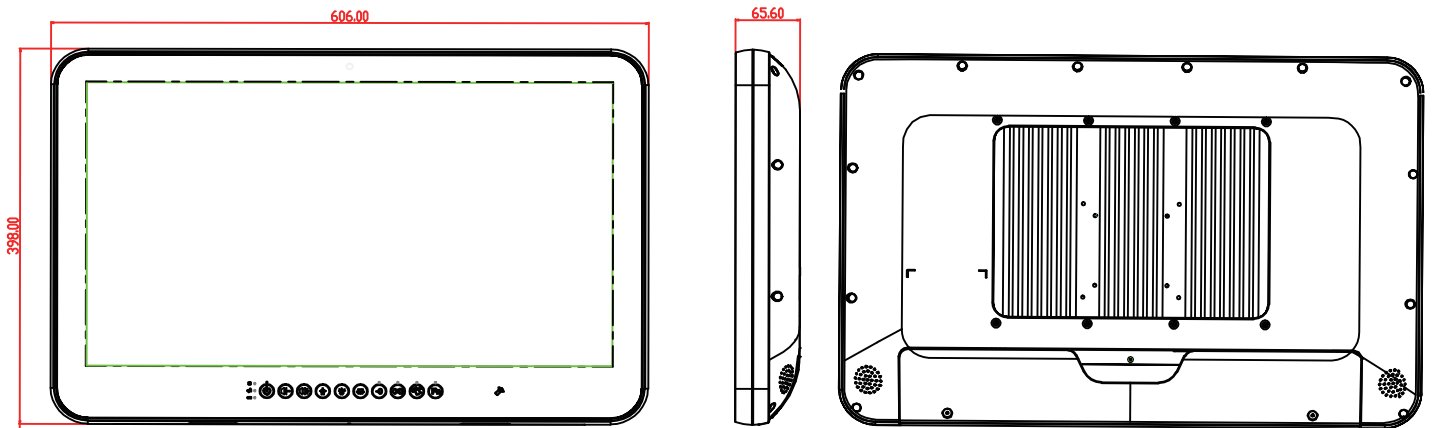
Mechanical & Environmental

Housing	· Front: Full flat design · Rear: Plastic + I/O cover w/ antibacterial treatment · Anti-bacteria (MRSA)
Color	· Housing: White · Control key icons: Silver Grey (Pantone no. Cool grey 8C)
IP rating	IP65 – front side
Cooling	Fanless
Mounting	VESA 75 x 75 / 100 x 100 mm
Kensington lock	Yes, bottom x 1
Dimension	606 (H) x 398 (V) x 65.6 (T) (mm x mm x mm)
Weight (net)	9 kg (w/o power adapter)
Temperature	· Operating : 0°C~40°C (chamber) · Storage : -20°C~60°C
Humidity	Operating & storage – 10%~90%, non-condensing
Regulatory	UL/cUL 60601-1 version 3, FCC/VCCI class B / EN 60601-1 / EN60601-1-2:2007 / ISO 14971

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Outline Dimension



Packaging / Options / Customization

Packaging System, power adaptor, AC power cord, DVD (drivers & manual)

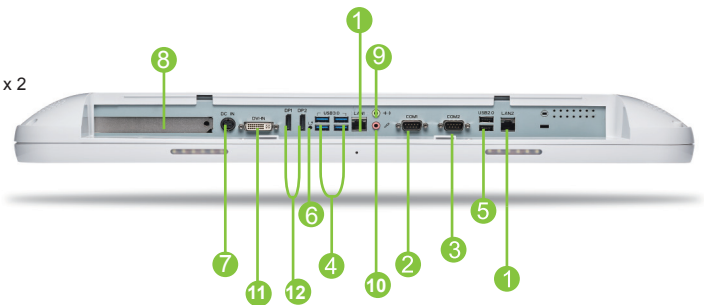
- Options**
- WLAN – 802.11 a/b/g/n mini PCIe module with internal antenna x 2
 - 802.11a/b/g/n dual-band 2T2R with Bluetooth
 - Webcam (5M pixel, USB)
 - Battery pack
 - RFID reader (13.56Hz, USB)
 - PCI-E x16 or PCI raiser card
 - Power adaptor w/ 2.4m or 3.6m DC cable
 - Anti-bacteria desktop stand (metal, white)
 - Equipotential terminal pin
 - TPM module
 - Smart card reader / or DVD drive / or 2nd HDD
 - CFAST card
 - 4KV Isolation Card x 1
(Isolation COM x 2, Isolation LAN x 1, Isolation USB x 1)



- Customization**
- Add extra two COM ports
 - AG Film



I/O Connectors



- | | |
|-----------------|-------------------------|
| 1 LAN x 2 | 8 PCI-E/PCI expansion |
| 2 RS232/422/485 | 9 Line-out |
| 3 RS232 | 10 Microphone-in |
| 4 USB 3.0 x 4 | 11 DVI-D (Input) |
| 5 USB 2.0 x 2 | 12 DP Port x 2 (Output) |
| 6 Reset | 13 DVD (Option) |
| 7 DC-in | |



Ordering Information

- CPU: Core i5-4402E(default) / i3-4102E · Memory: 2G / 4G / 8G / 16G · HDD: 320G / 500G · 4KV Isolation Card: None / x 1
- Power adaptor: 1.2m / 2.4m / 3.6m DC cable · WLAN: None / x 1 · Bluetooth + WLAN: None / x 1 · Battery pack: None / x 1
- RFID reader: None / x 1 · Expansion: None / PCI-E / PCI · Webcam: None / x 1 · Desktop stand: None / x 1
- TPM module: None / x 1 · Smart card reader / or DVD drive / or 2nd HDD · CFAST card: None / x 1
- Equipotential terminal pin: None / x 1



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