

# M1920

19" Fanless Intel® Core™ i7-2610UE Medical Station



## Features

- **Fanless Design**
- Applicable for Clinical Station, Vital Sign, Medical Station, Patient Monitoring, Nursing Care and PACS
- Soldered Onboard Intel® Core™ i7-2610UE Processor
- 19 inch LCD with Resistive Touch
- EN60601-1, EN60601-1-2, UL60601-1 Certified
- Streamline Appearance - 56mm in Thickness
- Multi-connectivity (Bluetooth, WLAN)
- RFID Reader, 5.0 Megapixel Camera, Smartcard Reader, IR Remote Control and Slim DVD-RW
- Optional Alternative of External Battery or PCIe x16 Expansion Box
- Isolated Serial Ports, USB and LAN Ports
- Multi-expansion (3 x RS-232, 4 x USB, 2 x LAN, 1 x DVI-D and 1 x SD Card)
- Intel® SSD Compatible

## System

<b>CPU</b>	Intel® Core™ i7-2610UE 1.5 GHz processor
<b>Graphics Controller</b>	Intel® HD Graphics 3000
<b>Memory</b>	4GB DDR3-1333 SO-DIMM memory module installed
<b>Chipset</b>	Intel® QM67
<b>Storage</b>	160GB 2.5" SATA HDD

## Peripherals and Devices

<b>Camera</b>	1 x 5.0 megapixel CMOS camera with auto-focus (optional)
<b>RFID</b>	13.56MHz RFID reader with ISO 14443A/15693 support (optional)
<b>Wi-Fi</b>	1 x 802.11 a/g/n Mini PCIe Wireless LAN card (optional)
<b>Remote Controller</b>	1 x Remote controller (optional)
<b>DVD-RW</b>	1 x Slim DVD-RW (optional)
<b>Docking Bay</b>	For the alternative of External Battery or PCIe x16 Expansion box (optional)
<b>SD Card</b>	1 x SD/SDHC slot
<b>Smart Card Reader</b>	Dual slots Smart Card Reader

## I/O interface

<b>Audio I/O</b>	1 x Integrated microphone, 2 x Integrated 2W speaker 1 x Mic-in, 1 x speaker-out
<b>Video output</b>	1 x DVI-D connector
<b>Video input</b>	1 x SDI connectors
<b>LAN</b>	2 x RJ45 connectors for GbE LAN
<b>Serial Port</b>	2 x RS-232 port with 4KV isolation 1 x RS-232/422/485 with 4KV isolation
<b>USB Port</b>	4 x USB 2.0 ports 1 x USB 1.1 port with 4KV isolation (on the top)

## Button & Indicator

<b>Function Key</b>	1 x Menu button 1 x Touch and LCD on/off button 1 x Brightness up button 1 x Brightness down button 1 x Voice up button 1 x Voice down button 1 x Programmable button
<b>LED Indicator</b>	1 x Power on membrane LED
<b>Power Button</b>	1 x Power on/off button

## LCD Display

<b>Size/Type</b>	19" TFT Active Matrix Panel
<b>Max. Resolution</b>	1280 x 1024 (SXGA) with 16.2M colors
<b>Luminance</b>	350 cd/m <sup>2</sup> (typ.)
<b>Contrast Ratio</b>	1000:1 (typ.)
<b>Viewing Angle</b>	+85° ~ -85° (H), +80° ~ -80°(V)
<b>Backlight Type</b>	LED

## Touch Screen

<b>Type</b>	5 wire Analog Resistive Touch
<b>Controller Interface</b>	USB interface

## Power Requirement

<b>Adapter Input</b>	100 ~ 240 VAC (Full Range)
<b>Adapter Output</b>	DC 18V, 5A, 90W with medical certificate

## Mechanical & Environmental

<b>Operating Temp.</b>	0 ~ 40°C (32 ~ 104°F)
<b>Storage Temp.</b>	-20 ~ 60°C (-4 ~ 140°F)
<b>Dimensions (W x D x H)</b>	400 x 456 x 56 mm (15.75" x 17.95" x 2.2")
<b>Gross Weight</b>	TBD
<b>Regulatory</b>	CE, FCC Class B EN60601-1, EN60601-1-2, UL60601-1 certified
<b>IP Rating</b>	IP-65 (front) and IP-42 in others
<b>Vibration</b>	5 ~ 500Hz, 1G random operation
<b>Shock</b>	10G peak (11m/sec)

## OS Support

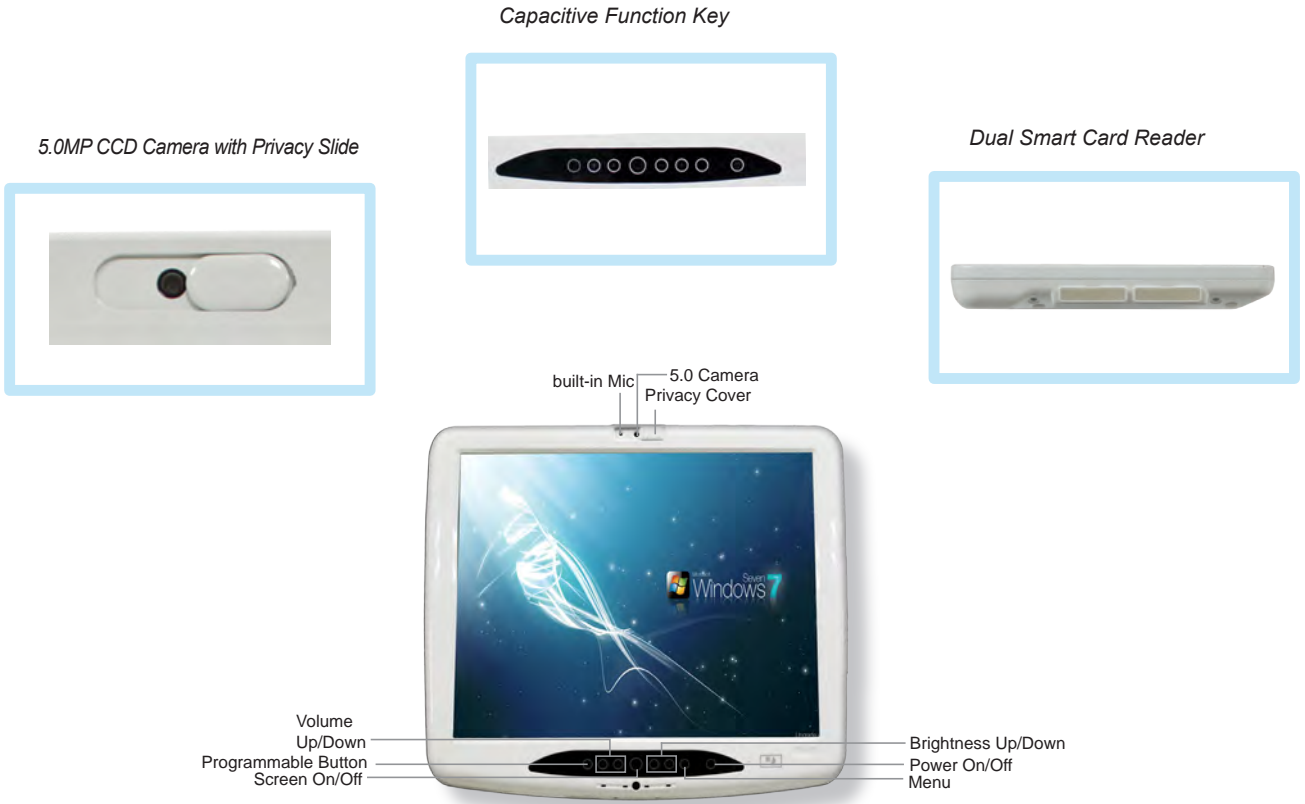
Windows embedded Standard 7
Windows XP embedded
Linux Ubuntu and Fedora compliant

## Ordering Information


<b>M1920</b>	19" Fanless Intel® Core™ i7-2610UE Medical Station
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## Standard Accessories

**PAC-M090W**  
90W Medical AC/DC adapter kit 

## Optional Accessories

**eBAT-1920**  
External 7200 mAh 9-cell Battery Box

**eEXP-1920**  
External Expansion Box module kit

**ARM Kit** Hospital Arm page 8-25


## Optional Configuration (CTOS\* Kit)

**WiFi-1920**  
WiFi module kit 


**RFID-1920**  
RFID module kit 

**BT-1920**  
Bluetooth module kit 

**CAM-1920**  
5.0MP CMOS camera module kit 

**DVDR-1920**  
Slim DVD-RW Drive module kit 

**RC-1920**  
Remote controller kit

<b>SSD-25080</b>	<b>Brand/Type</b>	Intel / 2.5 inch	
Intel® 2.5" 80GB SATAII SSD kit	<b>Interface</b>	SATAII	
	<b>Capacity</b>	80GB	
	<b>Dimensions (W x D x H)</b>	100.45 x 69.85 x 9.5 mm (3.95" x 2.75" x 0.37")	

\*CTOS means Configure to Order Service.

All specifications are subject to change without notice.