

# M1920

## 19" Fanless Intel® Medical Station



### Features

- Fanless Design
- Applicable for Clinical Station, Nursing and PACS
- Soldered Onboard Intel® Core™ i7-2610UE or Celeron® 827E Processor
- 19 inch LCD with Resistive Touch
- EN60601-1, EN60601-1-2, UL60601-1 Certified
- Streamline Appearance - 59mm in Thickness
- Multi-connectivity (Bluetooth, WLAN and GbE)
- RFID Reader, 5.0 Megapixel Camera, Dual Smartcard Readers, RF Keyboard 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 Displayport and 1 x SD Card)
- Intel® SSD Compatible

### System

<b>CPU</b>	Intel® Core™ i7-2610UE 1.5 GHz processor Intel® Celeron® 827E 1.4 GHz processor
<b>Graphics Controller</b>	Intel® HD Graphics 3000
<b>Memory</b>	4GB DDR3 SO-DIMM memory module installed
<b>Chipset</b>	Intel® QM67 for i7-2610UE Intel® HM65 for 827E
<b>Storage</b>	32GB mSATA SSD installed 2.5" 320GB SATA HDD (optional) Intel® 40GB SSD (optional)

### Peripherals and Devices

<b>Camera</b>	Integrated 5.0 megapixel CMOS camera with auto-focus (optional)
<b>RFID</b>	13.56MHz RFID reader with ISO 14443A/14443B/15693 support (optional)
<b>Wi-Fi</b>	Integrated Intel® Centrino® Advanced-N 6205 802.11 a/b/g/n
<b>Bluetooth</b>	Integrated Bluetooth 2.1 + EDR
<b>RF Keyboard</b>	Integrated RF Keyboard (optional)
<b>DVD-RW</b>	Integrated 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 Smart Card Reader slots

### I/O interface

<b>Audio</b>	1 x Integrated microphone, 2 x Integrated 3W speakers 1 x Mic-in, 1 x Line-out
<b>Video output</b>	1 x displayport
<b>Video input</b>	1 x SDI connector (optional)
<b>LAN</b>	2 x RJ45 connectors for GbE LAN with 4KV isolation
<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 2.0 port with 4KV isolation (on the top)

### Button & Indicator

<b>Button</b>	1 x Power on/off button 1 x Menu button 1 x Touch and LCD on/off button 1 x Brightness up button 1 x Brightness down button 1 x Volume up button 1 x Volume down button 1 x Programmable button
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### LCD Display

<b>Size/Type</b>	19" TFT Active Matrix Panel
<b>Max. Resolution</b>	1280 x 1024 (SXGA) with 16.7M colors
<b>Luminance</b>	350 cd/m <sup>2</sup> (typ.)
<b>Contrast Ratio</b>	1000:1 (typ.)
<b>View Angle (U/D/R/L)</b>	80°/80°/85°/85°
<b>Backlight Type</b>	LED

### Touch Screen

<b>Type</b>	Analog Resistive Touch
<b>Light Transparency</b>	80% (typ.)
<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>Operating Humidity</b>	10 ~ 95% @ 40°C (non-condensing)
<b>Dimensions (W x D x H)</b>	399.4 x 459.5 x 59 mm (15.72" x 18.09" x 2.32")
<b>Net Weight</b>	7.5 kg (16.53 lb)

<b>Regulatory</b>	CE, FCC Class B EN60601-1, EN60601-1-2, UL60601-1 certified
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<b>IP Rating</b>	IP-65 (front) and IP-42 in others
<b>Vibration</b>	5 ~ 500Hz, 1G random operation (SSD only)
<b>Shock</b>	10G peak (11m/sec)

<b>Operational Altitude</b>	below 2000m
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### OS Support

Windows 8 Embedded / Windows 8 Professional  
Windows 7 Embedded / Windows 7 Professional  
Windows XP Embedded / Windows XP Professional  
Ubuntu and Fedora Linux compliant

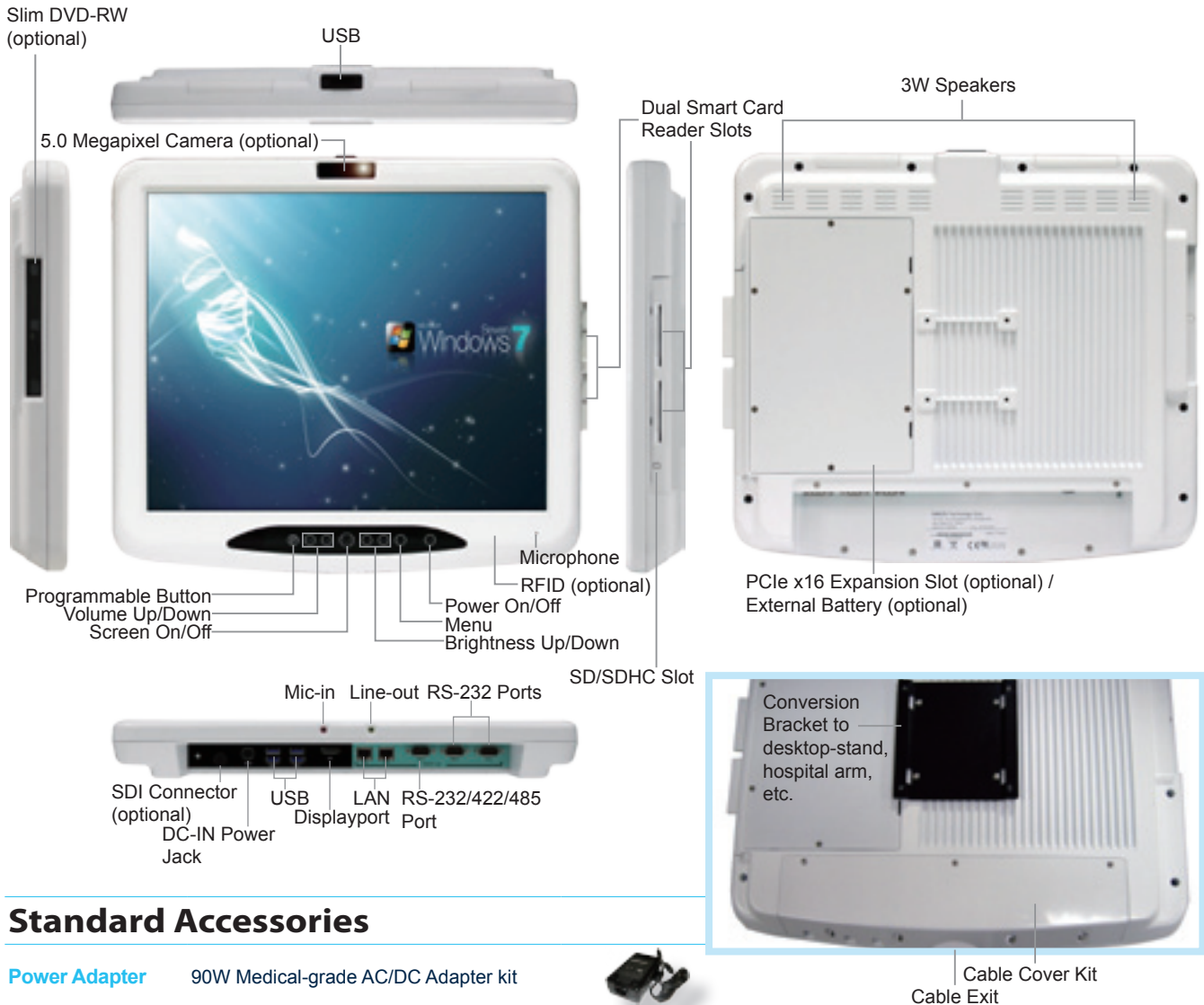
### Ordering Information

<b>M1920-2610UE</b>	19" Fanless Intel® Core™ i7-2610UE Medical Station with WiFi and Bluetooth
<b>M1920-827E</b>	19" Fanless Intel® Celeron® 827E Medical Station with WiFi and Bluetooth

All specifications are subject to change without notice.

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### Standard Accessories

**Power Adapter** 90W Medical-grade AC/DC Adapter kit



### Optional Accessories

**ARM Kits** See pages 28 and 29.

### Optional Configuration (CTOS\* Kit)

**RFKB-1858** RF Keyboard remoter and module



**RFID-1920** RFID module kit



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



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



**HDD-1920** 2.5-inch 320GB HDD kit



**SSD-25040** Intel® 2.5" 40GB SATAII SSD kit



**eBAT-1920** 9-cell External Battery kit



**eEXP-1920** PCIe x16 Expansion module kit



\*CTOS means *Configure-to-Order Service*.

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