



# M1923

## 19" Fanless Intel® Medical Station



### Features

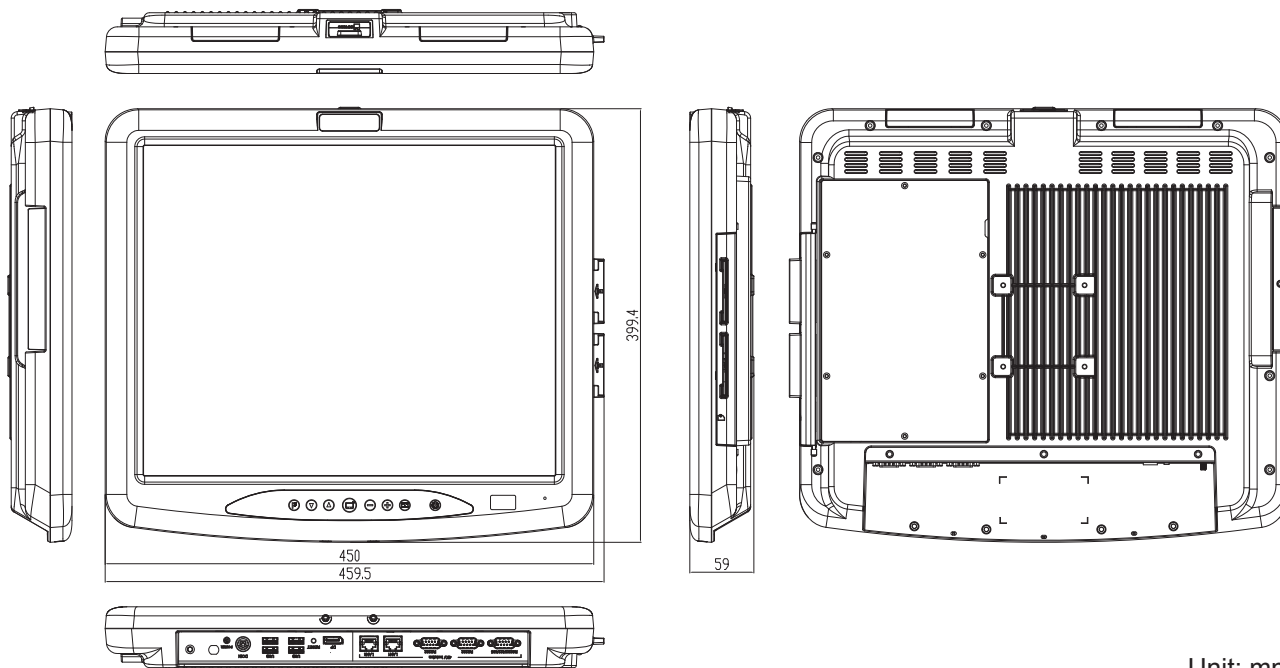
- Fanless design
- Applicable for clinical station, nursing and PACS
- Soldered onboard 7<sup>th</sup> Gen. Intel® Core™ i5-7442EQ processor
- 19 inch LCD with resistive touch
- IEC & EN 60601-1 (Edition 3.1), IEC & EN 60601-1-2 (Edition 4th) certified
- Streamline appearance - 59mm in thickness
- Multi-connectivity (Bluetooth, WLAN and GbE)
- RFID & NFC reader, 5.0 MP camera, dual smart card readers, 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, 5 x USB, 2 x LAN, 1 x DisplayPort and 1 x SD Card)

| System                  |  |
|-------------------------|--|
| CPU                     | Soldered onboard 7 <sup>th</sup> Gen. Intel® Core™ i5-7442EQ 2.9GHz processor  |
| Graphics Controller     | Intel® HD Graphics 630   |
| Memory                  | 4GB DDR4 SO-DIMM memory module installed, supporting up to 32GB  |
| Storage                 | 128GB M.2 2280 PCIe Gen3 SSD<br>2.5" 80GB SSD (optional)   |
| Peripherals and Devices |  |
| Camera                  | 1 x 5.0 MP front facing CMOS camera with auto-focus (optional)   |
| WLAN & Bluetooth        | 1 x WLAN 802.11 a/b/g/n & Bluetooth 4.0 LE, class 2  |
| RFID & NFC              | 1 x 13.56MHz RFID & NFC reader with ISO 14443A/14443B/15693 support (optional)   |
| Smart Card Reader       | 2 x Smart Card Reader slots  |
| DVD-RW                  | 1 x Slim DVD-RW (optional)   |
| I/O Interface           |  |
| SD Card                 | 1 x SD/SDHC card slot  |
| Audio                   | 1 x microphone, 2 x 3W speakers<br>1 x Mic-in, 1 x Line-out  |
| Video output            | 1 x DisplayPort  |
| Video input             | 1 x SDI connector (optional)   |
| LAN                     | 2 x Intel® RJ-45 GbE with 4KV isolation  |
| Serial Port             | 2 x RS-232 port with 4KV isolation<br>1 x RS-232/422/485 with 4KV isolation  |
| USB Port                | 4 x USB 3.0 ports<br>1 x USB 2.0 port with 4KV isolation (12MB/Bits) (on the top)  |
| Expansion               | 1 x for the alternative of external battery or PCIe x16 expansion box (optional, max. 25W)   |
| Button & Indicator      |  |
| Cap-sensor Buttons      | 1 x Power on/off<br>1 x Touch & LCD on/off<br>1 x Brightness up<br>1 x Brightness down<br>1 x Voice up<br>1 x Voice down<br>1 x Menu<br>1 x Programmable |
| Physical Buttons        | 1 x Power button (supporting battery mode power on)<br>1 x Reset button  |

| Touch Screen               |   |
|----------------------------|---|
| Type                       | Analog Resistive Touch  |
| Light Transparency         | 80% (typ.)  |
| Controller Interface       | USB interface   |
| LCD Display                |   |
| Size/Type                  | 19" TFT Active Matrix Panel   |
| Max. Resolution            | 1280 x 1024 (SXGA) with 16.7M colors  |
| Luminance                  | 350 cd/m <sup>2</sup> (typ.)  |
| Contrast Ratio             | 1000:1 (typ.)   |
| Backlight Type             | LED   |
| View Angle (U/D/R/L)       | 80°/80°/85°/85° (typ.)  |
| Power Requirement          |   |
| Adapter Input              | 100 ~ 240 VAC (full range)  |
| Adapter Output             | DC 18V, 5.55A, 100W with medical certificate  |
| Battery Type               | Li-battery pack   |
| Battery Capacity           | 1 x 7800mAh 9-cell external battery pack (optional)   |
| Mechanical & Environmental |   |
| Operating Temp.            | 0 ~ 40°C (32 ~ 104°F)   |
| Storage Temp.              | -20 ~ 60°C (-4 ~ 140°F)   |
| Operating Humidity         | 10 ~ 95% @ 40°C (non-condensing)  |
| Dimensions (W x H x D)     | 450 x 399.4 x 59 mm (17.7" x 15.7" x 2.32")   |
| Net Weight                 | 7.5 kg (16.53 lb)   |
| Vibration                  | 5 ~ 500Hz, 1G random operation (SSD only)   |
| Shock                      | 10G peak (11m/sec)  |
| Mounting                   | VESA-75 compatible (M4)   |
| IP Rating                  | Compliance design with IP65 (front touch panel)   |
| Operational Altitude       | Below 2000m   |
| Regulatory                 | CE, FCC Part 18 Subpart C<br>IEC & EN 60601-1 Safety (Edition 3.1),<br>IEC & EN 60601-1-2 EMC (Edition 4th) |
| OS Support                 |   |
| Windows                    | Windows 10 IoT Enterprise LTSC  |
| Linux                      | Ubuntu  |
| Ordering Information       |   |
| M1923                      | 19" Fanless 7 <sup>th</sup> Gen. Intel® Core™ i5 Medical Station with WLAN and Bluetooth                    |

All specifications are subject to change without notice.

## Dimensions



Unit: mm

### Power Requirement

PAC-M100W 100W medical-grade AC/DC adapter kit



### Optional Accessories

ARM-Kits VESA-75/100 medical arms

### Optional Configuration (CTOS\* Kit) (Not Sold Separately)

RFID & NFC-1920 RFID & NFC module kit for M192X



CAM-1920 5.0MP CMOS camera module kit for M192X



DVDRW-1920 Slim DVD-RW drive module kit for M192X



SSD80G-192X 2.5" Intel® 80GB SSD kit for M192X



eBAT-1920 7800mAh 9-cell external battery pack for M192X



eEXP-1920 PCIe x16 expansion module kit for M192X



\*CTOS means Configure-to-Order Service.