



# 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)

Medical Computing

### 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 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 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 1 x RS-232/422/485 with 4KV isolation
USB Port	4 x USB 3.0 ports 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 1 x Touch & LCD on/off 1 x Brightness up 1 x Brightness down 1 x Voice up 1 x Voice down 1 x Menu 1 x Programmable
Physical Buttons	1 x Power button (supporting battery mode power on) 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 IEC & EN 60601-1 Safety (Edition 3.1), IEC & EN 60601-1-2 EMC (Edition 4th)
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### OS Support

Windows 10 IoT Enterprise LTSC
Linux: Ubuntu

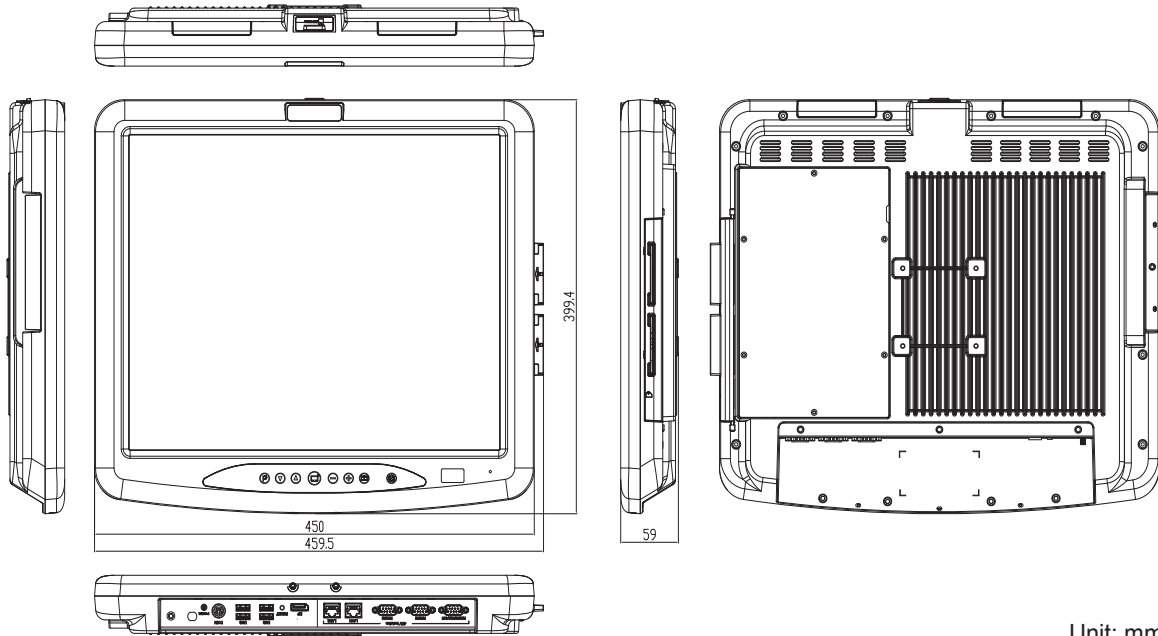
### Ordering Information

M1923	19" Fanless 7 <sup>th</sup> Gen. Intel® Core™ i5 Medical Station with WLAN and Bluetooth
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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.

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660