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M1923

19” Fanless Intel® Medical Station

Features

- Fanless design
- Applicable for clinical station, nursing and PACS
- Soldered onboard 7th 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)

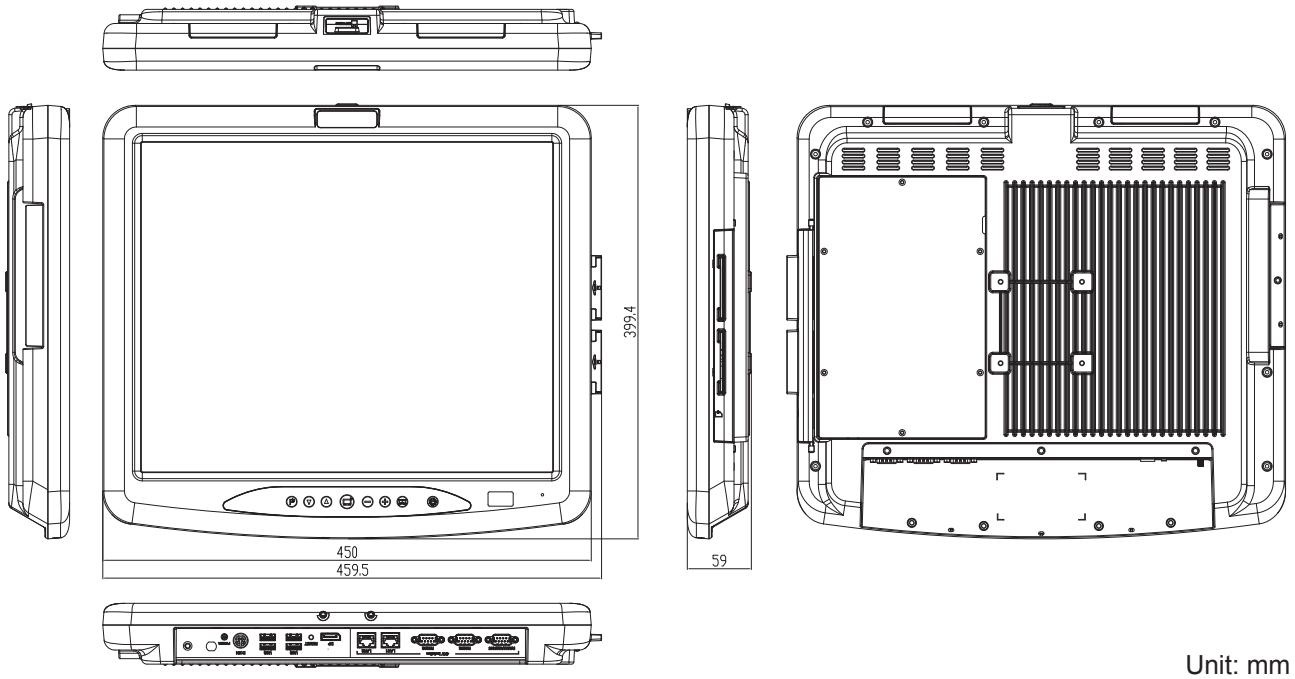
System	
CPU	Soldered onboard 7th Gen. Intel® Core™ i5-7442EQ 2.9GHz processor
Graphics Controller	Intel® HD Graphics 630
Memory	4GB DDR4 SO-DIMM memory module installed
Storage	128GB M.2 2280 PCIE Gen3 SSD
	2.5” 80GB SSD (optional)
Peripherals and Devices	
Camera	1 x 5.0 MP front facing CMOS camera with 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/m² (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 400 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)
OS Support	
Windows 10 IoT Enterprise LTSC Linux: Ubuntu	
Ordering Information	
M1923	19” Fanless 7th Gen. Intel® Core™ i5 Medical Station with WLAN and Bluetooth

Medical Computing

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.*