

M1922

19" Fanless Intel® Medical Station



Features

- Fanless Design
- Applicable for Clinical Station, Nursing and PACS
- Soldered Onboard 4th Generation Intel® Core™ i5-4402E / i5-4422E
- 19 inch LCD with Resistive Touch
- IEC60601-1 (3rd edition), EN60601-1 (3rd edition), EN60601-1-2 certified
- UL60601-1 compliant
- Streamline Appearance - 59mm in Thickness
- Multi-connectivity (Bluetooth, WLAN and GbE)
- RFID & NFC Reader, 5.0 Megapixel 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 4 th Generation Intel® Core™ i5-4402E dual-core 1.6 GHz or i5-4422E dual-core 1.8 GHz
Graphics Controller	Intel® HD Graphics 4600
Memory	4GB DDR3L SO-DIMM memory module installed
Chipset	Intel® QM87
Storage	32GB mSATA SSD installed 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

Button	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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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 ² (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

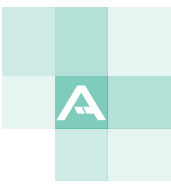
Operating Temp.	0 ~ 40°C (32 ~ 104°F)
Storage Temp.	-20 ~ 60°C (-4 ~ 140°F)
Operating Humidity	10 ~ 95% @ 40°C (non-condensing)
Dimensions (W x H x D)	399.4 x 459.5 x 59 mm (15.72" x 18.09" x 2.32")
Net Weight	7.5 kg (16.53 lb)
Vibration	5 ~ 500Hz, 1G random operation (SSD only)
Shock	10G peak (11m/sec)
Mounting	VESA-75 compatible (M4)
IP Rating	Compliance design with IP65 (front touch panel)
Operational Altitude	Below 2000m CE, FCC Part 18 Subpart C
Regulatory	IEC60601-1 (3 rd edition), EN60601-1 (3 rd edition), EN60601-1-2 UL60601-1 compliant

OS Support

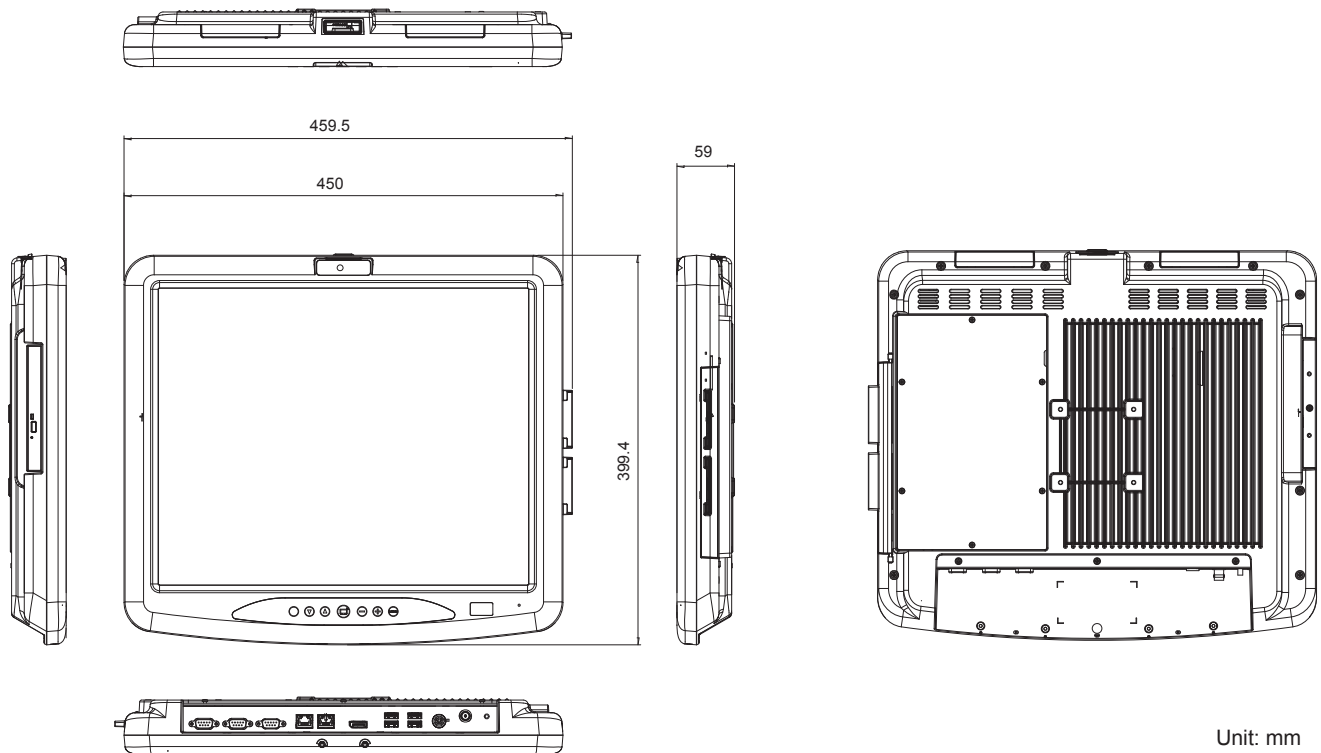
Windows Embedded Standard 7 (WS7E / WS7P)
Windows Embedded 8 Standard / Windows Embedded 8.1 Industry Pro
Linux: Ubuntu / Fedora

Ordering Information

M1922-4402E	19" Fanless Intel Core™ i5-4402E Medical Station with WLAN and Bluetooth
M1922-4422E	19" Fanless Intel Core™ i5-4422E Medical Station with WLAN and Bluetooth



Dimensions



Power Requirement

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

ARM-Kits	VESA-75/100 medical arms
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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.