

TMB-5710

Medical Edge AI Box PC



Key Highlights

- Ready for AI / Medical edge computing
- Intel 9th Gen. Coffee Lake-S CPU
- PCIe 16x extension includes extra LAN and COM ports
- Easily removable HDD
- Medically certified anti-microbial surface
- Flat surfaces make sanitation easy

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The TMB-5710 Medical Edge AI Box PC is medically certified hardware designed for AI, edge computing, or other processor-intensive tasks. This medical box pc features two expansion slots for things like AI Cores or graphic cards, as well as a customized PCIe x16 expansion module featuring additional COM and LAN inputs. The Medical Edge AI Box PC has an Intel 9th Gen. Coffee Lake-S CPU and an easily removable HDD to assist with HIPAA patient data storage protocols.

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Technical Specifications

Primary Components

| | |
|------------------|--|
| Processor Family | Intel Core-I Series 9th Generation Coffee Lake |
| Processor Model | Core i5-9500TE, Core i7-9700TE |
| Processor Speed | 1.8 GHz, 2.2 GHz |
| Memory Type | 2x DDR4 SO-DIMM |
| Memory Support | 32GB |
| Storage Type | 1x 2.5" SATA Drive Bay for SSD/HDD (easily accessible), 1x M.2 SATA3 2280 Slot |

Power

| | |
|---------------------|-----------|
| Input Voltage Range | 12-24V DC |
|---------------------|-----------|

Compatibility

| | |
|-------------------|------------------|
| Security Hardware | Optional TPM 2.0 |
|-------------------|------------------|

Thermal & Environmental

| | |
|-----------------------|-----------------------------|
| Operating Temperature | 0°C - 35°C (32°F - 95°F) |
| Storage Temperature | -20°C - 60°C (-4°F - 140°F) |
| Humidity Range | 10% - 90% Non-condensing |
| Storage Humidity | 10% - 90% Non-condensing |

Peripherals & Wireless Connectivity

| | |
|------|------------------------------------|
| WiFi | 802.11 ac/a/b/g/n WLAN + BT module |
|------|------------------------------------|

Warranty

| | |
|----------|---------------|
| Warranty | Up to 5 Years |
|----------|---------------|

Specifications subject to change.

External I/O Ports

| | |
|------------------------|---|
| USB | 2x USB 2.0, 4x USB 3.0 |
| Serial / Com | 2x COM |
| Serial Protocol Detail | 2 x RS232/RS422/RS485 (Ri/5V/12V) |
| Ethernet / LAN | 2x RJ45 GbE LAN |
| Video Outputs | 1x DisplayPort 1.2, 1x DVI-D, 1x VGA |
| Audio Ports | 1x 3.5mm Audio Line-In, 1x 3.5mm Audio Line-Out, 1x 3.5mm Microphone Jack |
| Power Input Port | 4-Pin DC-In Jack |

Operating Systems

| | |
|---------|--|
| Windows | Windows 10 IoT, Windows 10 Pro, Windows 11 IoT, Windows 11 Pro |
|---------|--|

Expansion Slots

| | |
|--------------|--|
| Internal M.2 | 1x M.2 for NVME SSD Support (Not at same time with Removable 2.5" HDD) |
|--------------|--|

Enclosure

| | |
|---------------------|-------------------|
| Material | Aluminum |
| Color | White |
| Led Indicator Light | HDD Access, Power |
| Control Buttons | Power Switch |

Weight / Dimensions

| | |
|------------|---|
| Dimensions | 301 x 295.2 x 130 mm (11.9 x 11.6 x 5.1 in) |
|------------|---|

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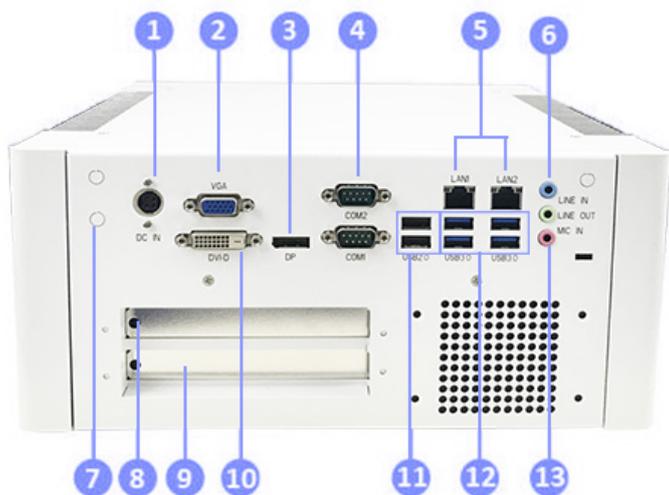
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I/O Diagram Images



- 1 DC-in
- 2 VGA
- 3 1 x DP
- 4 2 x RS232/RS422/RS485
- 5 2 x RJ-45
- 6 Line-in/out
- 7 Equipotential terminal pin
- 8 PCIe x 16
- 9 PCIe x 1
- 10 DVI-D
- 11 2 x USB 2.0
- 12 4 x USB 3.0
- 13 Mic-in

USA

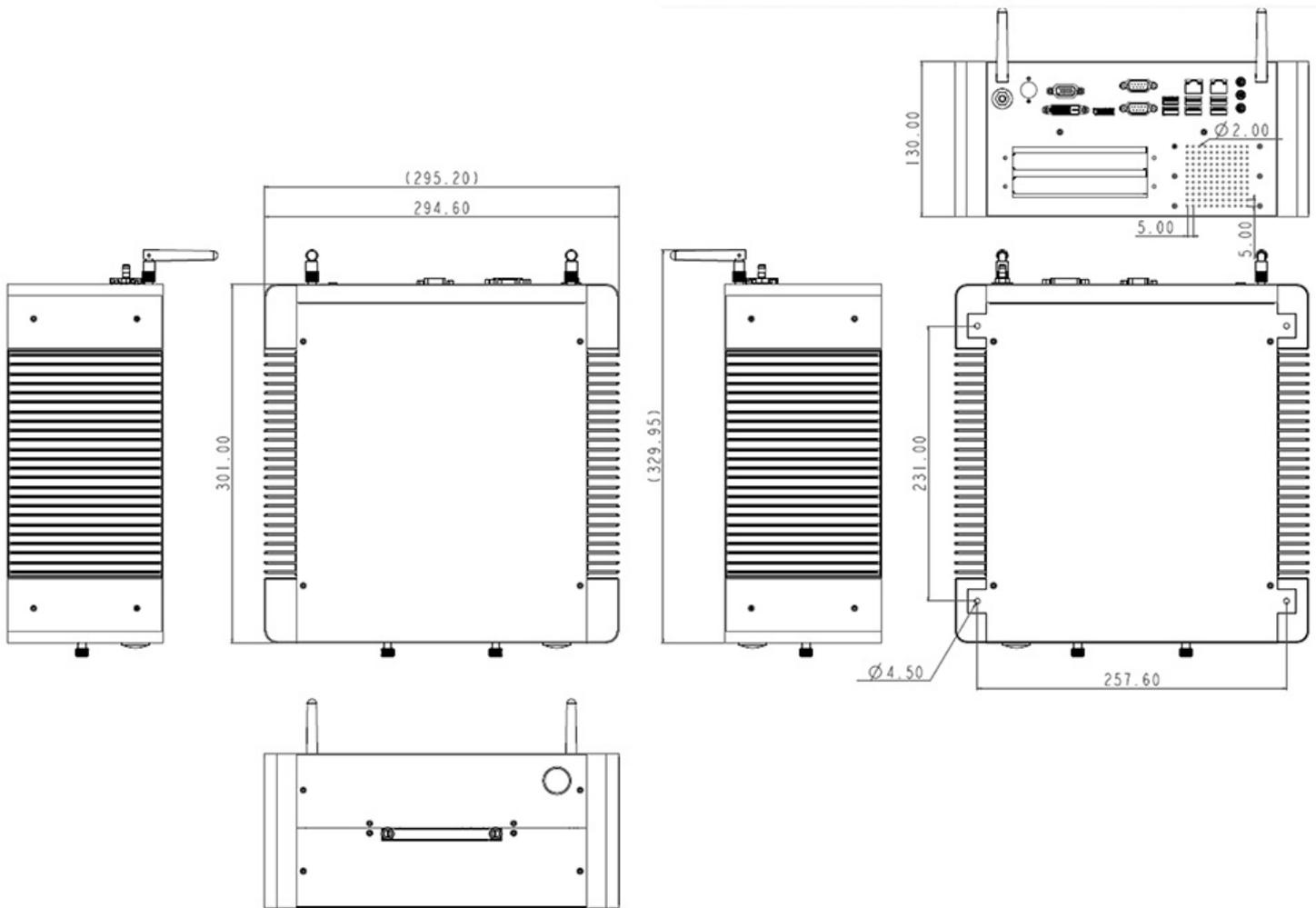
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