TEGUAR

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

VIEW ONLINE

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.

USA
Teguar
2920 Whitehall Park Drive
Charlotte, NC 28273
+1 866-693-3105
sales@teguar.com

EUROPE
Teguar Europe AG
Churerstrasse 54, CH-8808
Pfäffikon, Switzerland
+41 41 561 53 11
sales.EU@teguar.com

ASIA
Teguar Taiwan Ltd.
Rm. A, 28F-12., No.99, Sec. 1, Xintai 5th Rd.,
Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
+886 2 7751 5319
sales@teguar.com.tw

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

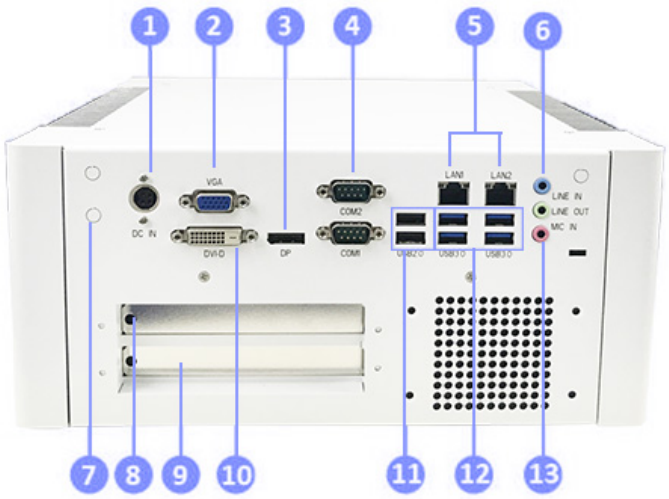
Dimensions	301 x 295.2 x 130 mm (11.9 x 11.6 x 5.1 in)

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I/O Diagram Images



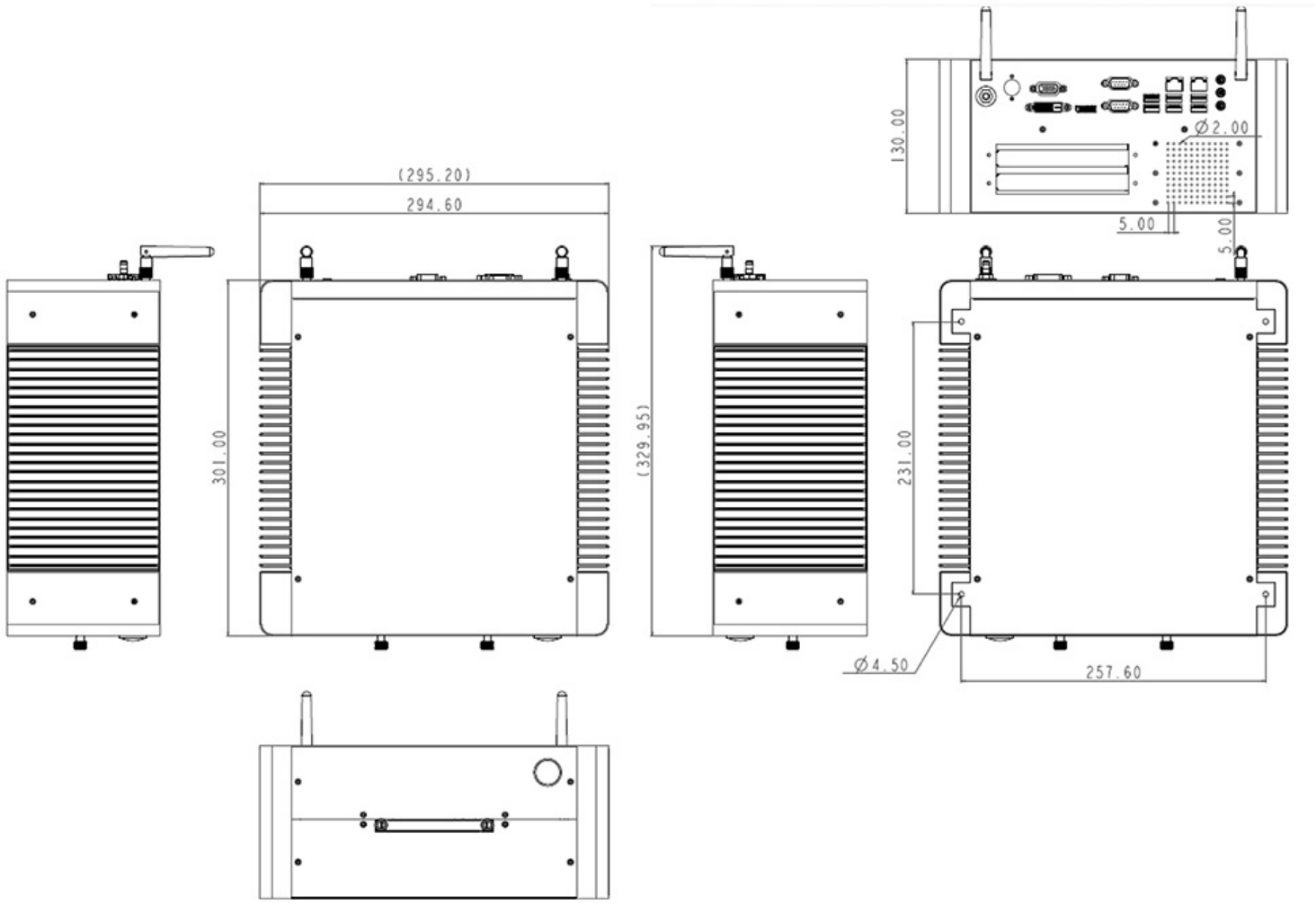
1. DC-in
2. VGA
3. 1 x DP
4. 2 x RS232/RS422/RS485
5. 2 x RJ-45
6. Line-in/out
7. Equipotential terminal pin
8. PCIe x 16
9. PCIe x 1
10. DVI-D
11. 2 x USB 2.0
12. 4 x USB 3.0
13. Mic-in

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Tech Diagram Images



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