

Medical Box PC

HTB-100-HM170 | Fanless Quad Core Box PC

Features

- Medical grade with high performance fanless embedded computing
- 6th Gen Intel® Core™ processor platform with Intel® HM170 chipset and DDR4 memory
- Triple independent display with high resolution support
- Isolated COM ports for enhancing safety among devices
- Optional PCIe x16 expansion slot supports more flexible functions



» Smart & Friendly Design! HTB-100 brings you more satisfaction

Isolated COM ports, rich I/O interface, and multiple expansions are built in to the HTB-100. The intelligent HTB-100 medical computing system will meet all demands from the medical applications.



• Compliant with medical standards

The HTB-100 is compliant with medical standards, including IEC 60601-1 V3.1, IEC 60601-1-2 V4.0, IEC 62304, IEC 62366, ISO 14971 and FCC part 18 class B, making the medical environment more reliable.

• Flexible expansion

The flexible expansion is one of the advantages of the HTB-100 for medical applications. The HTB-100 reserves a PCIe x16 slot for add-on card expansions, such as capture card for medical imaging inspection during surgery.

• Waterproof top cover

The HTB-100 is equipped with a waterproof top cover in order to prevent any damage from cleaning or liquid which may indirectly affect patients. The HTB-100 can meet flat design and reduce maintenance effort.

• Cable cover for easy cabling

The cable cover protects the HTB-100 from dust and liquid ingress, and allows the medical staff to easily manage all the cables from the I/O ports, making the cleaning process more convenient in medical environment.



» Powerful system design capability with innovative technology



• Isolated COM ports for safety protection

The COM ports support 2.5kV isolation that meets medical standard (IEC 60601-1-2 V4.0). The isolated ports can increase safety on device designed for medical environment, and provide comprehensive protection against electrical surges for patients and medical staffs.

• Fanless and easy maintenance

The HTB-100 is a fanless embedded system, and the heatsink is situated on the bottom side. The design makes the HTB-100 an easy-to-clean and reliable system for the medical environment.

• Ground pin to prevent harm to patients and medical staffs

The perfect grounding pin design can avoid current from the HTB-100 to vital devices which connect to patients, and to avoid the current damage from other devices.

• Easy mounting design

Various mounting methods such as desktop and wall mount are supported for easy use in medical environment. The provided flexible mounting bracket can be oriented 180 degrees to change from desktop to wall mount.



Specifications

| Model | HTB-100-HM170 | |
|----------------|--|---|
| Physical | Color | Silver+Greyish blue |
| | Dimensions (WxDxH) | 294 x 209 x 90.2 |
| | Net Weight | 2.2 kg |
| | System Fan | Fanless |
| | Chassis Construction | Extruded aluminum alloy |
| Motherboard | CPU | Intel® Core™ i7-6822EQ (2 GHz, quad-core, TDP=25) Intel® Core™ i5-6442EQ (1.9 GHz, quad-core, TDP=25) |
| | Chipset | Intel® HM170 |
| | System Memory | 2 x 260-pin DDR4 SO-DIMM, one 4 GB pre-installed (system max: 32GB) |
| Storage | Hard Drive | 1 x 2.5" SATA 6Gb/s HDD/SSD bay |
| I/O Interfaces | USB 3.0 | 4 |
| | USB 2.0 | 2 |
| | Ethernet | 2 x RJ-45 PCIe GbE by Intel® I211 controller |
| | COM Port | 2 x RS-232 (DB-9, with 2.5 kV isolation) 2 x RS-232/422/485 (DB-9, with 2.5 kV isolation) |
| | Display | 1 x VGA, 1 x HDMI 2.0, 1 x iDP (optional) |
| | Resolution | VGA: Up to 1920 x 1200@60HZ HDMI 2.0: Up to 4096 x 2160@60Hz |
| | Audio | Realtek ALC662, 5.1-channel High Definition Audio (HDA), Line-in, Line-out, Mic-in |
| Expansions | Wireless | 1 x 802.11a/b/g/n/ac 2T2R (optional) |
| | PCIe | 1 x PCIe x16 |
| | PCIe Mini | 1 x Half-size PCIe Mini 1 x Full-size PCIe Mini (supports mSATA, colay with SATA) |
| Power | M.2 | 1 x M.2 A & E key (2230/ USB or PCIe) |
| | Power Input | DC Jack: 12~28V DC |
| | Power Consumption | 19W@4.4A (Intel® Core™ i7-6822EQ with 4 GB memory) |
| Reliability | Adapter | Adapter Power: Vin:90~264VAC; 150W; Dim:85*170*42.5mm; Plug=6.5mm; Cable=1200mm; MEDICAL; Vout:19VDC; Din 4Pin/lock; CCL; R10 |
| | Mounting | Wall mounting |
| | Operating Temperature | 0°C ~ 40°C with air flow (SSD), 10% ~ 95%, non-condensing |
| | Storage Temperature | -40°C ~ 70°C with air flow (SSD), 10% ~ 90%, non-condensing |
| | Operating Shock | Half-sine wave shock 5G; 11ms; 100 shocks per axis |
| OS | Operating Vibration | MIL-STD-810G 514.6 C-1 (with SSD) |
| | Safety / EMC | CE, FCC class B part 18, IEC 60601-1 V3.1, IEC 60601-1-2 V4.0, IEC 62304, ISO 14971 |
| Supported OS | Microsoft® Windows 8, Microsoft® Embedded Standard 7 | |

Ordering Information

| Part No. | Description |
|-------------------------|---|
| HTB-100-HM170-i5/4G-R10 | Ruggedized fanless embedded system with Intel® Core™ i5-6442EQ 1.9 GHz (up to 2.7 GHz, quad core, TDP 25W), 4GB DDR4 pre-installed memory, one PCIe x16 expansion, VGA/HDMI/iDP, COM port, 12~28V DC, Adapter Power; Vin:90~264VAC; 150W; Dim:85*170*42.5mm; Plug=6.5mm; Cable=1200mm; MEDICAL; Vout:19VDC; Din 4Pin/lock; CCL; R10 |
| HTB-100-HM170-i7/4G-R10 | Ruggedized fanless embedded system with Intel® Core™ i7-6822EQ 2.0 GHz (up to 2.8 GHz, quad core, TDP 25W), 4GB DDR4 pre-installed memory, one PCIe x16 expansion, VGA/HDMI/iDP, COM port, 12~28V DC, Adapter Power; Vin:90~264VAC; 150W; Dim:85*170*42.5mm; Plug=6.5mm; Cable=1200mm; MEDICAL; Vout:19VDC; Din 4Pin/lock; CCL; R10 |

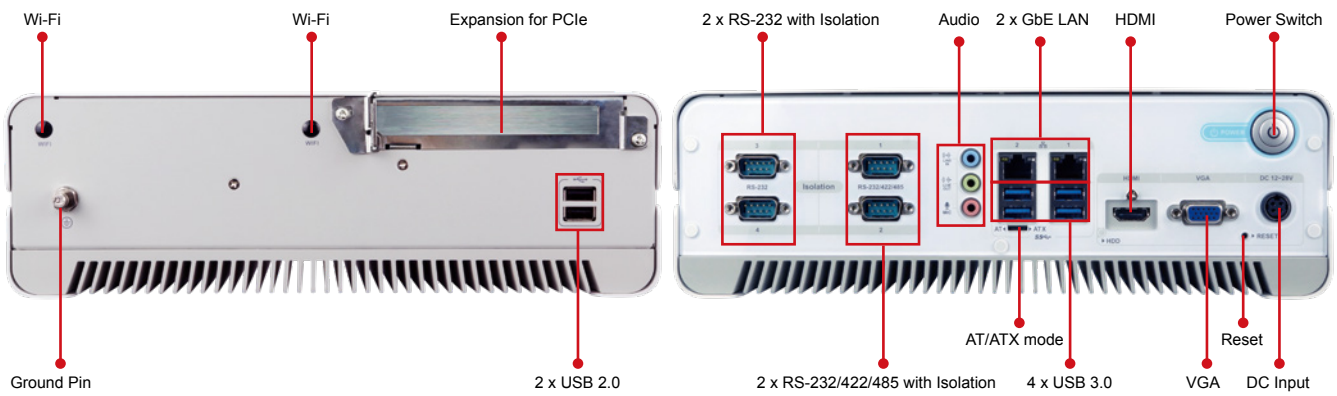
Options

| Part No. | Description |
|--------------------|------------------------------------|
| 41008-0803K6-00-RS | Cable COVER; HTB-100ME; White; R10 |

Packing List

| | |
|-------------------|----------------------|
| 1 x Chassis Screw | 1 x Mounting Bracket |
|-------------------|----------------------|

I/O Interface



HTB-100-HM170 Dimensions (Unit: mm)

