

SB-5000

Modular Fanless Box PC with Intel® 12th / 13th LGA1700 Processor



Applications

- Edge AI Computing
- Factory Automation
- Image Processing
- Gaming and Entertainment Industries
- Network Communications

Features

- Supports 13th/12th Gen Intel® LGA 1700 Processors
- 2 x Intel® 2.5GbE supporting Wake-on-LAN and PXE
- 2 x DDR5 4800/5600MHz SO-DIMM, Max 64GB
- Quad Display: 3 x DisplayPort, 1 x VGA
- Multiple Storage Capability (M.2, SATA SSD)
- 9~48V DC Input with Power Ignition Function
- -40°C ~ 70°C Wide Operating Temperature

Ordering Information

| Part No. | Description |
|----------|---|
| SB-5000 | Intel® 13 th /12 th Core™ i LGA1700 CPU, R680E Fanless Box PC with 9 x USB3.2, 6 x RS232/422/485, 2 x 2.5GbE, 1 x VGA, 3 x DP, 2 x Flexible I/O Window Slot, 2 x Internal 2.5" SATA SSD, DC 9~48V, Terminal Block Connector |

Packing List

| Description |
|--------------------|
| 1 x SB-5000 |
| 1 x Wall Mount Kit |

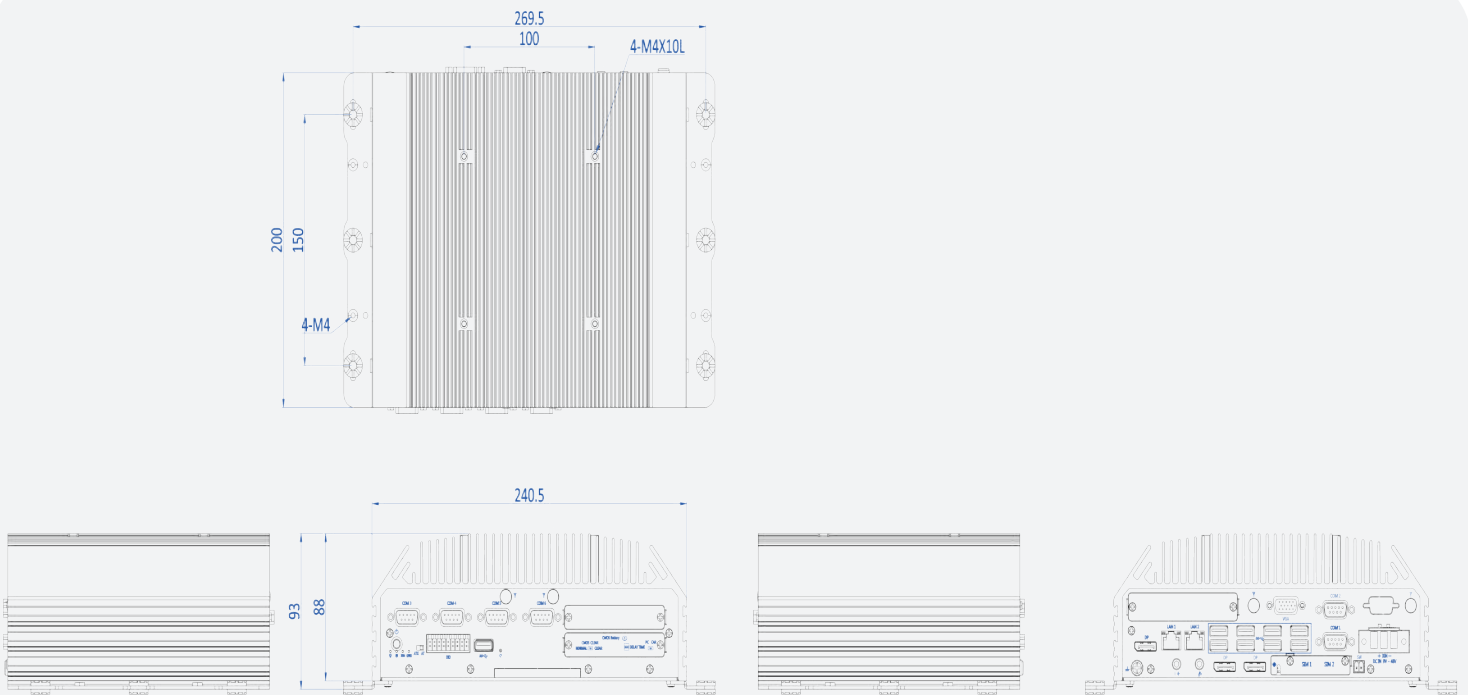
Optional Items

| Part No. | Description |
|------------------------|---|
| i9-13900TE | Intel® 13 th Gen Core™ i9-13900TE Embedded_Raptor Lake_36M Cache, up to 5.00 GHz_35W |
| i7-13700TE | Intel® 13 th Gen Core™ i7-13700TE Embedded_Raptor Lake_30M Cache, up to 4.80 GHz_35W |
| i5-13500TE | Intel® 13 th Gen Core™ i5-13500TE Embedded_Raptor Lake_24M Cache, up to 4.50 GHz_35W |
| i3-13100TE | Intel® 13 th Gen Core™ i3-13100TE Embedded_Raptor Lake_12M Cache, up to 4.10 GHz_35W |
| i9-12900TE | Intel® 12 th Gen Core™ i9-12900TE Embedded_Alder Lake_30M Cache, up to 4.80 GHz_35W |
| i7-12700TE | Intel® 12 th Gen Core™ i7-12700TE Embedded_Alder Lake_25M Cache, up to 4.60 GHz_35W |
| i5-12500TE | Intel® 12 th Gen Core™ i5-12500TE Embedded_Alder Lake_18M Cache, up to 4.30 GHz_35W |
| i3-12100TE | Intel® 12 th Gen Core™ i3-12100TE Embedded_Alder Lake_12M Cache, up to 4.20 GHz_35W |
| EA-PS-160W24VTB3x-0111 | Adapter AC/DC 24V 6.67A 160W with 3-pin Terminal Block Plug 7.62mm Pitch |
| EA-PS-221W24VTB3x-0111 | Adapter AC/DC 24V 9.2A 221W with 3-pin Terminal Block Plug 7.62mm Pitch |
| 30100-0003-CA | Power Cord, 3-pin US Type, 180 cm |
| 30101-0005-CA | Power Cord, 3-pin EU Type, 180 cm |

Specifications

| Model | | SB-5000 |
|------------------|--|--|
| Processor System | CPU | 13 th /12 th Gen Intel® Core™/Pentium®/Celeron® 35W LGA 1700 Processors |
| | System Chipset | Intel® R680E |
| | BIOS | AMI 256 Mbit SPI Flash |
| | TPM | TPM 2.0 |
| | Technology | Dual Channel DDR5 4800/5600 (ECC and Unbuffered) |
| Memory | Max. Capacity | 64GB |
| | Type | 2 x 262-pin SO-DIMM |
| | Graphics Engine | Core™ i9/i7/i5: Intel® UHD Graphics 770 Core™ i3: Intel® UHD Graphics 730 Pentium®/Celeron®: Intel® HD Graphics 710 |
| Display | Multiple Display | 4 |
| | VGA | 1 x VGA, Max Resolution 1920 x 1200 |
| | DP | 3 x DP, Max Resolution 4096 x 2160 |
| | HDMI | 3 x HDMI, Max Resolution 4096 x 2160 (Optional) |
| I/O Interface | USB | 9 x USB3.2 (Gen2) |
| | Serial Port | 6 x RS232/422/485 |
| | Ethernet | 2 x 2.5GbE Intel® i226-LM, RJ45 4 x GbE Intel® i350-AM4 (Optional, via Arestech Flexible I/O Window) |
| | PoE+ | 4 x PoE+ Intel® i350-AM4 (Optional, via Arestech Flexible I/O Window) |
| | Audio | 1 x Line-out, 1 x Mic-in |
| | GPIO / DIO | 8 x Isolated DI and 8 x Isolated DO, 2 x 9-pin Terminal Block |
| | Antenna Hole | 4 |
| | CMOS Battery | 1 x Removable CMOS Battery and 1 x Removable Clear CMOS Switch |
| Storage | Flexible I/O Window | 2 |
| | 2.5" HDD / SSD | 2 x 2.5" SATA III (6.0Gb/s) |
| | M.2 | 1 x M.2 M-Key1 2280 (SATA) 1 x M.2 M-Key2 2280 (NVMe x 4 and SATA) |
| | RAID | RAID 0/1/5/10 |
| Expansion | Mini PCIe | 1 x Full-Size Mini-PCIe (PCIe, USB 2.0 and SIM) |
| | M.2 | 1 x M.2 B-Key 2242/3042/3052 (PCIe, USB 3.0 and SIM), 1 x M.2 E-Key 2230 (PCIe, CNVi) |
| | SIM Holder | 2 x Mini-SIM Holder |
| Power | Power Mode | AT/ATX |
| | Power Supply Voltage | 9-48V DC Input with Ignition Control |
| | Power Connector Type | 1 x DC Power Connector, 1 x 3-pin Terminal Block |
| | Protection | Over Voltage Protection (OVP) up to 52V Over Current Protection (OCP) up to 20A Reverser Voltage Protection (RVP) up to -48V |
| Mounting | Car Mode | 1 x PC/Car Mode Switch 1 x Delay Time Switch |
| | Type | Wall Mount (Additional Mounting Kit) |
| Environment | Operating Temperature | -40°C ~ 70°C |
| | Storage Temperature | -40°C ~ 80°C |
| | Humidity | 10% ~ 90% (Non-condensing) |
| General | Vibration | 5Grms, 5-500Hz, 0.5hr/axis |
| | Shock | 50G, Half-sine, 11ms |
| | Certification | CE/FCC Class A |
| | Thermal Dissipation | Fanless for 35W CPU |
| | Material | Aluminum & SECC |
| | Dimensions (W x D x H) | 240 x 200 x 88mm |
| | Net Weight | 3.8kg |
| Operating System | Windows 10 IoT, Windows 11 (IoT/Professional), Linux | |

Dimension



Viewing

