

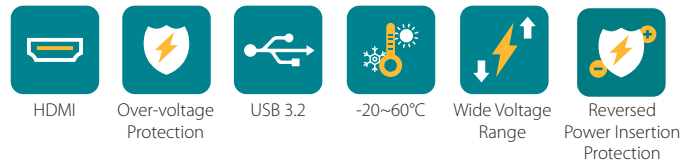
SB-244-RPLU

Industrial Fanless Rugged Controller w/ Intel® 13th Raptor Lake U Series Processor & Discrete TPM



Features

- 13th Generation Intel® Core i7 / i5 / i3 Processors (Raptor Lake)
- 1 x DDR5 4800MHz SODIMM Slot, up to 32GB
- Support 2 x HDMI
- Support 1 x GbE PHY LAN , 3 x 2.5GbE
- Support 10-36V Wide DC Input
- Support Over-voltage and Reserved Power Insertion Protection
- Support M.2 SSD, M.2 Wi-Fi, Mini-PCIe, M.2 3052 5G
- Support Discrete TPM 2.0



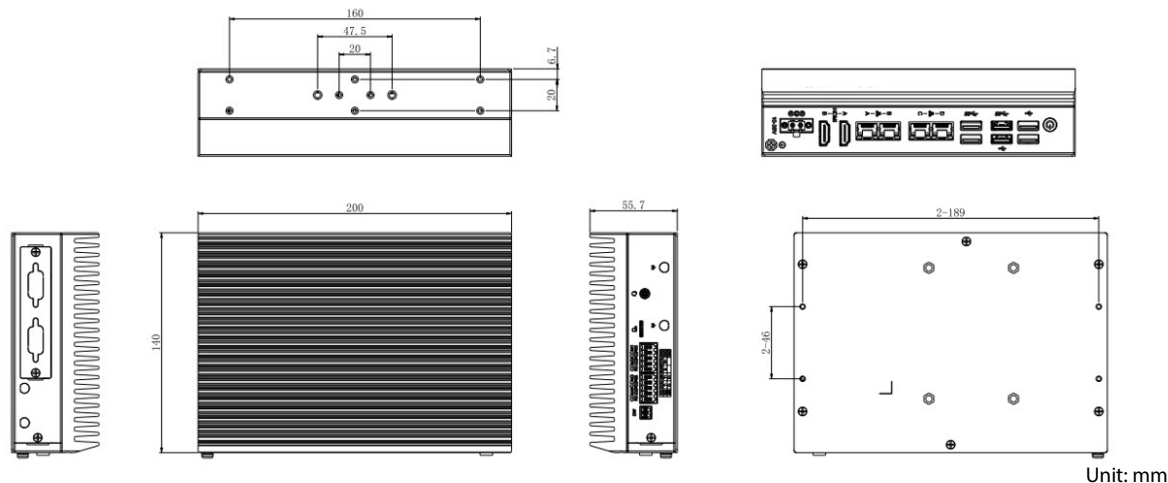
| System | |
|-----------------------------|--|
| CPU | 13 th Generation Intel® Core™ i7/ i5/ i3 (Raptor Lake U series) |
| Memory | 1 x 262-pin DDR5 SO-DIMM sockets, supporting 4800 MHz SDRAM up to 32GB |
| Chipset | Integrated in CPU |
| Graphics | Intel® UHD Graphics for 13 th Gen Intel® Processors |
| LAN chipset | 1 x Intel® i219-LM GbE PHY 3 x Intel® I226-V 2.5GbE controllers |
| Watchdog Timer | 1~255 levels reset |
| TPM | Nuvoton NPCT760AABYX TPM 2.0 chip |
| Storage | |
| Device | 1 x M.2 2242 B-Key SATA SSD 1 x M.2 2280 M-key NVMe supported 1 x SATA 3.0 (2.5" HDD/SSD) |
| Audio | |
| Type | 1 x audio(Line-out & Mic-in) (Chipset ALC888S/897) |
| Power System | |
| Power Input | 10-36V DC, 2-pin phoenix connector |
| OS | |
| Windows 10/11, Ubuntu 22.04 | |
| Qualification | |
| Certification | CE, FCC |
| External I/O | |
| Serial Ports | 4 x RS232/422/485(default RS-232) with auto flow control (5-pin phoenix terminal head interface) |
| USB Ports | 3 x USB3.2 3 x USB2.0 |
| LAN | 4 x RJ45 |

| Video Ports | 2 x HDMI (Max Resolution: 4096 x 2304@60Hz) |
|--------------------|---|
| Power Button | 1 x power button w/ LED |
| Remote on-off | 1 x SW |
| Internal I/O | |
| Expansion Slot | 1 x full-size Mini PCIe (PCIe x1 / USB2.0 signals) 1 x M.2 2230 E-key slot (PCIe x1 / USB2.0 signals) 1 x M.2 2280 M-key NVMe (PCIe x4 signals) 1 x M.2 2242 B-key SATA SSD or 3042/3052 cellular module (USB3.2 signals) [Note: 2242 M.2 SSD, 3042 M.2, 3052 M.2 share one card slot, only one of the cards can be inserted] |
| SIM Card | 1 x SIM Card socket for 4G/5G module |
| USB Port | 2 x USB2.0 by pin head |
| COM Port | 2 x R232 by 3-wire pin head |
| GPIO | 1 x 8bit programmable GPIO pin header (3.3V / 5V jumper voltage adjustable) |
| Mechanical | |
| Chassis | Aluminum alloy |
| Mounting | Wall-mount, Din-rail |
| Dimension | 200 x 140 x 55.7 mm |
| Weight (Net) | 1.8kg |
| Environmental | |
| Operating Temp. | -20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow |
| Storage Temp. | -40 ~ 85°C (-40 ~ 185°F) |
| Operating Humidity | 10% ~ 95% (non-condensing) |
| Vibration | 5~500Hz, 2Grms operation |
| Shock | Operation: 10G@11ms Non-operation: 30G@11ms |




All specifications are subject to change without notice.

SB-244-RPLU

Dimensions



Packing List

| | | |
|---------------------------|---|---|
| SB-244-11XXX | 1pcs BOX PC |  |
| Wall-mount bracket | 2 pcs |  |
| DIN-rail kit | 1 pcs |  |
| Thermal Pad | 1pcs for Memory 2pcs for M.2-2242/3042 | |
| 2-pin terminal block | 1pcs 5mm for power-input, 1pcs 3.5mm for remote on-off SW | |
| DIP-10 terminal block | 2pcs for serial ports | |
| Screw package | 1 pcs | |
| 22-pin SATA & power cable | 1 pcs | |

Ordering Information

| | |
|-----------------------|--|
| SB-244-11315U | SB-244-11315U w/ i3-1315U Fanless System, 4xLAN, 4xCOM(up to 6), 6xUSB, 2xHDMI, DC12-36V power input |
| SB-244-11335U | SB-244-11335U w/ i5-1335U Fanless System, 4xLAN, 4xCOM(up to 6), 6xUSB, 2xHDMI, DC12-36V power input |
| SB-244-11365U | SB-244-11365U w/ i7-1365U Fanless System, 4xLAN, 4xCOM(up to 6), 6xUSB, 2xHDMI, DC12-36V power input |
| PAC-120W-FSP-SPA R1.0 | AC/DC ADAPTER KIT (W/UKCA),19V,120W,2 WIRE w/ USA POWER CORD |
| PAC-120W-FSP-SPA R1.1 | AC/DC ADAPTER KIT (W/UKCA),19V,120W,2 WIRE w/ EU POWER CORD |
| PAC-120W-FSP-SPA R1.2 | AC/DC ADAPTER KIT (W/UKCA),19V,120W,2 WIRE w/ UK POWER CORD |
| PAC-120W-FSP-SPA R1.3 | AC/DC ADAPTER KIT (W/UKCA),19V,120W,2 WIRE w/ IN POWER CORD |