



2U1G-B650

- 2U Rackmount with 1+1, 80-PLUS Platinum, 1200W CRPS
- Single Socket AM5 (LGA 1718), supports AMD Ryzen 7000 series processors
- 4 DIMM slots (2DPC), supports DDR5 ECC/non-ECC UDIMM
- 1 FHFL triple-slot PCIe5.0 x16
- 1 FHHL PCIe4.0 x4
- Supports 2 M.2 slots
- 2 RJ45 (1GbE) by Intel® i210
- Remote management (IPMI)

HDMI™ (High-Definition Multimedia Interface)



This motherboard supports HDMI™ (High-Definition Multimedia Interface) which is an interface standard for transferring uncompressed video data and delivering multi-channel audio through a single cable. Both video and audio data signals transferred through the HDMI™ interface are digital without being converted into analog, therefore it delivers the richest pictures and the most realistic sounds.



Specifications

| System | |
|---|--|
| Form Factor | 2U Rackmount |
| Dimensions | 477.7 x 430.4 x 88 mm (18.8" x 16.9" x 3.5") |
| Support MB | B650D4U |
| Front Panel | |
| Buttons | Power button w/ LED, System Reset button |
| LEDs | System Fail LED, LAN1/LAN2 Activity, Power Status LED |
| I/O Ports | 2 Type-A (USB3.2 Gen1) |
| External Drive Bay / Storage | |
| Internal Side | 1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU] 1 M-key (PCIe4.0 x4), supports 2280/2242 form factor [FCH] |
| Power Supply | |
| Type | 1+1 Hot-swap CRPS |
| Output Watts | 1000W @ 100-127Vac input / 1200W @ 200-240Vac input |
| Efficiency | 80-PLUS Platinum |
| AC Input | AC 100-127V/12A, 50-60Hz; AC 200-240V/7.5A, 50-60Hz |
| System Fan | |
| Fan | 4 PWM easy-swap 80x38 mm fans |
| Processor System | |
| CPU | Supports AMD Ryzen 7000 series Processors |
| Socket | Single Socket AM5 (LGA 1718) |
| Thermal Design Power | Up to 120W |
| Chipset | AMD B650E |
| System Memory | |
| Supported DIMM Quantity | 4 DIMM slots (2DPC) |
| Supported Type | DDR5 288-pin ECC/non-ECC UDIMM |
| Max. Capacity per DIMM | 48GB |
| Max. DIMM Frequency | 5200 MHz (1DPC); 3600 MHz (2DPC) |
| Voltage | 1.1V |
| PCIe Expansion Slots (SLOT7 close to CPU) | |

| | |
|---------------------------|---|
| PCIe x 16 | 1 FHFL triple-slot PCIe5.0 x16 via RB2UX16L_G5_RDV Support GPU card dimensions (L x W x H): 335 x 131 x 62 mm (GPU power connector on the south edge) 312 x 154.5 x 62 mm (GPU power connector on the east edge) |
| PCIe x 4 | 1 FHHL PCIe4.0 x4 via riser cable |
| Ethernet | |
| Additional GbE Controller | Intel® i210: 2 RJ45 (1GbE) |
| Server Management | |
| BMC Controller | ASPEED AST2600 |
| IPMI Dedicated GLAN | 1 Realtek RTL8211F for dedicated management GLAN |
| Graphics | |
| Controller | ASPEED AST2600: 1 DB15 (VGA), 1 (15-pin) header AMD Processors with Graphics: 1 HDMI, 1 DisplayPort |
| Rear I/O | |
| UID Button/LED | 1 UID button w/ LED |
| VGA Port | 1 DB15 (VGA), 1 DisplayPort, 1 HDMI |
| Serial Port | 1 DB9 (COM) |
| USB 3.2 Gen1 Port | 4 Type-A (USB3.2 Gen1) |
| RJ45 | 2 RJ45 (1GbE) 1 dedicated IPMI |
| System BIOS | |
| BIOS Type | AMI UEFI BIOS; 256Mb (32MB) SPI Flash ROM |
| BIOS Features | Plug and Play, ACPI 6.4 compliance wake up events, SMBIOS 3.5 |
| Hardware Monitor | |
| Temperature | CPU, DDR, MB, Card Side, Chipset, M.2 slot |
| Fan | Fan Tachometer, Multi-Speed Control, CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) |
| Voltage | VOLT_3VSB, VOLT_5VSB, VOLT_P0_VCORE, VOLT_P0_VSOC, VOLT_VMEM, VOLT_VMISC, VOLT_1.8V_PT21, VOLT_VSUS10, VOLT_VDD10, VOLT_V10_PHY_DIG, VOLT_VDD_1P8, VOLT_MD_VDDO, VOLT_BAT, VOLT_3V, VOLT_5V, VOLT_12V |
| Environment | |
| Temperature | Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C |
| Humidity | Non operation humidity: 20% ~ 90% (Non condensing) |

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+886-2-5559-9600

+886-2-2893-1557

asrockrack_sales@asrockrack.com

4F., No.37, Sec.2, Zhongyang S. Rd., Beitou District, Taipei City 112, Taiwan (R.O.C)

www.asrockrack.com

@ASROCKRACK

ASRock Rack Inc.

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