

## 1U4LW-B650/2L2T RPSU



- 1U Rackmount with 450W Redundant PSU (1+1)
- Single Socket AM5 (LGA 1718), supports AMD EPYC™ 4004 and AMD Ryzen™ 9000/8000/7000 Series Processors
- 4 DIMM slots (2DPC), supports DDR5 ECC/non-ECC UDIMM
- 4 hot-swap 3.5" SATA drive bays
- 1 FH PCIe4.0 x16
- Supports 1 M.2 (PCIe5.0 x4)
- 2 RJ45 (10GbE) by Broadcom BCM57416
- 2 RJ45 (1GbE) by Intel® i210
- 1 HDMI, 1 DisplayPort
- 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

<b>System</b>	
Form Factor	1U Rackmount
Dimensions	534.35 x 430 x 43.3 mm (21" x 16.9" x 1.7")
Support MB	B650D4U-2L2T/BCM
<b>Front Panel</b>	
Buttons	Power w/ LED, UID w/LED, System reset
LEDs	LANs, HDD activity, System health
I/O Ports	2 Type-A (USB3.2 Gen1)
<b>External Drive Bay / Storage</b>	
Front Side Drive Bay	4 Hot-swap 3.5" SATA drive bays
Internal Side	1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]
<b>Power Supply</b>	
Type	1+1 Redundant PSU
Output Watts	450W
AC Input	100-240V, 50-60Hz
<b>System Fan</b>	
Fan	5 PWM Hot-swap 40x28 mm fans
<b>Processor System</b>	
CPU	Supports AMD EPYC™ 4004 and AMD Ryzen™ 9000/8000/7000 Series Processors
Socket	Single Socket AM5 (LGA 1718)
Thermal Design Power	Up to 170W *Based on Cinebench R23 tool to meet AMD criteria
Chipset	AMD B650
<b>System Memory</b>	
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
<b>PCIe Expansion Slots (SLOT7 close to CPU)</b>	
PCIe x 16	Rear: 1 FH PCIe4.0 x16 via RB1UX16_G4
<b>Ethernet</b>	
Additional GbE Controller	Broadcom BCM57416: 2 RJ45 (10GbE) Intel® i210: 2 RJ45 (1GbE)
<b>Server Management</b>	
BMC Controller	ASPEED AST2600
IPMI Dedicated GLAN	1 Realtek RTL8211F for dedicated management GLAN
<b>Graphics</b>	

Controller	ASPEED AST2600: 1 DB15 (VGA), 1 (15-pin) header AMD Processors with Graphics: 1 HDMI, 1 DisplayPort
<b>Rear I/O</b>	
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 (10GbE) 2 RJ45 (1GbE) 1 dedicated IPMI
<b>System BIOS</b>	
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
<b>Hardware Monitor</b>	
Temperature	CPU, DDR, MB, Card Side, Chipset, 10G LAN, 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_VMEMP, 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
<b>Supported OS</b>	
OS	Microsoft® Windows: - Windows® 10 (64 bit) - Windows® 11 (64 bit)  Linux: - RedHat Enterprise Linux Server 8.7 (64bit) - CentOS 8.5 ( 64 bit) - SUSE SLES 15.4(64 bit) / 15.2(64 bit) - Ubuntu 22.04.1 (64 bit) / 21.10 (64 bit) / 21.04 (64 bit)  Hypervisor: - VMWare® ESXi 8.0 / 7.0 U3g
<b>Environment</b>	
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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