



## B550D4U-2T (BTO)

- Micro-ATX (9.6" x 9.6")
- Support AMD Ryzen 5000 Series Desktop Processors 4 DIMM slots (2DPC), supports
- DDR4 ECC/non-ECC UDIMM
- 1 PCIe4.0 x16, 1 PCIe4.0 x4
- 1 M.2 (PCIe3.0 x4 or SATA 6Gb/s)
- 6 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel® X710-AT2
- Remote management (IPMI)



### Specifications

Physical Status	
Form Factor	Micro-ATX
Dimensions	9.6" x 9.6"
Processor System	
CPU	Supports: AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000* Series Desktop Processors * Not compatible with AMD Ryzen™ PRO 3000 Series Desktop Processors with Radeon™ Graphics
Socket	Single Socket AM4 (PGA1331)
Chipset	AMD B550
System Memory	
Supported DIMM Quantity	4 DIMM slots (2DPC)
Supported Type	Supports DDR4 288-pin ECC*/non-ECC UDIMM * For AMD Ryzen Desktop Processors with Radeon Graphics, ECC support is only with Processors with PRO technologies.
Max. Capacity per DIMM	ECC/non-ECC UDIMM: up to 32GB
Max. DIMM Frequency	up to 3200 MHz* * AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics support up to 2666 MHz
Voltage	1.2V
PCIe Expansion Slots (SLOT7 close to CPU)	
PCIe x 16	SLOT6: Latch PCIe4.0* x16 [CPU] *Supports PCIe3.0 when using AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics
PCIe x 4	SLOT4: PCIe4.0* x4 [CPU] *Supports PCIe3.0 when using AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics

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Other PCIe Expansion Connectors	
M.2 slot	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [FCH]
SATA/SAS Storage	
PCH Built-in Storage	AMD B550 (4 SATA 6Gb/s; RAID 0/1/10): 3 SATA 7-pin, 1 SATA DOM
Additional SATA Controller	ASM 1061 (2 SATA 6Gb/s): 2 SATA 7-pin
Ethernet	
Additional Ethernet Controller	1 Intel® X710-AT2: 2 RJ45 (10GbE)
Graphics	
Controller	ASPEED AST2500: 1 DB15, 1 (15-pin) header  AMD Ryzen Desktop Processors with Radeon Graphics: 1 HDMI
Rear I/O	
UID Button/LED	1 UID button w/ LED
Video Port	1 DB15, 1 HDMI
Serial Port	1 DB9
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (10GbE) 1 dedicated IPMI
Internal Connector/Headers	
Power Connector	1 (24-pin, ATX main power), 1 (8-pin, ATX 12V)
Auxiliary Panel Header	1 (19-pin): chassis intrusion, system fault LED, LAN activity LED
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED
VGA header	1
Speaker Header	1 (4-pin)
Buzzer	1
Fan Header	4 (6-pin), 2 (4-pin)
Thermal Sensor Header	1
TPM Header	1 (17-pin, LPC), 1 (13-pin, SPI)
SMBus header	1
PMBus header	1
IPMB Header	1
Clear CMOS	1 (contact pads)
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1)
LED Indicators	
Standby PWR LED	1
80 Debug Port LED	1
Fan Fail LED	6

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BMC Heartbeat LED	1
<b>System BIOS</b>	
BIOS Type	AMI UEFI BIOS; 256 Mb (32MB) SPI Flash ROM
BIOS Features	Plug and Play, ACPI 5.1 compliance wake up events, SMBIOS 2.3
<b>Hardware Monitor</b>	
Temperature	CPU, DDR, MB, Card Side, FCH
Fan	Fan Tachometer Multi-Speed Control CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
Voltage	3VSB, 5VSB, VCPU, VSOC, VCCM, APU VDDP, 1.05V_PROM_S5, 2.5V_PROM, 1.05V_PROM_RUN, BAT, 3V, 5V, 12V
<b>Supported OS</b>	
OS	<p>Microsoft® Windows:</p> <ul style="list-style-type: none"> <li>- Windows® 10 (64 bit)</li> <li>- Windows® 11 (64 bit)</li> </ul> <p>Linux:</p> <ul style="list-style-type: none"> <li>- RedHat Enterprise Linux Server 8.5 (64bit) / 7.9 (64bit)</li> <li>- CentOS 8.5 ( 64 bit) / 7.9 (64bit)</li> <li>- SUSE SLES 15.2(64 bit)</li> <li>- Ubuntu 21.10 (64 bit) / 21.04 (64 bit)</li> </ul> <p>Hypervisor:</p> <ul style="list-style-type: none"> <li>- VMWare® ESXi 6.7.0 U3</li> </ul> <p>* On the Windows® system, Raid mode supports UEFI Boot only. * The Linux system doesn't support Raid Mode.</p>
<b>Environment</b>	
Temperature	Operating temperature: 10°C ~ 35°C / Non-operating temperature: -40°C ~ 70°C
Humidity	Non-operating humidity: 20% ~ 90% (non-condensing)

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