## 1.2 Specifications

X570D4U		
X570D40 X570D4U-2L2T		
X570D4U-2L2T/BC	M	
Physical Status		
Form Factor	Micro-ATX	
Dimension	9.6" x 9.6" (244 mm x 244 mm)	
Processor System		
CPU	AMD Ryzen <sup>™</sup> 5000, 4000 and 3000 G-Series Desktop	
	Processors with Radeon <sup>™</sup> Graphics	
	AMD Ryzen <sup>™</sup> 5000 and 3000 Series Desktop Processors	
	AMD Ryzen <sup>™</sup> PRO 5000, 4000 and 3000 Series Desktop	
	Processors	
Socket	1 Socket AM4 (PGA 1331)	
Thermal Design	105W	
Power (TDP)		
Chipset	AMD X570	
System Memory		
Supported DIMM	4 DIMM slots (2DPC)	
Quantity		
Supported Type	DDR4 288-pin ECC*/non-ECC UDIMM	
Max. Capacity per	32GB	
DIMM		
Max. DIMM	3200 MHz**	
	5200 WHIL	
Frequency Voltage	1.2V	
Note	*For AMD Ryzen <sup>™</sup> Desktop Processors with Radeon Graphics, ECC support is	
11010	only with Processors with PRO technologies.	
	**AMD Ryzen <sup>™</sup> 3000 G-Series Desktop Processors with Radeon <sup>™</sup> Graphics	
	support up to 2666 MHz	
Expansion Slot	1	
SLOT6	PCIe4.0 x16 [CPU]	
SLOT5	PCIe4.0 x1 [FCH]	
SLOT4	PCIe4.0 x8 [CPU]	
Note	-SLOT6 auto-switch to PCIe4.0 x8 when SLOT4 occupied	
	-SLOT6 supports PCIe3.0 only when installing AMD Ryzen <sup>™</sup> 5000, 4000 G-	
	Series Desktop Processors with Radeon <sup>™</sup> Graphics -SLOT6 supports PCIe3.0 x8 only when installing AMD Ryzen <sup>™</sup> 3000 G-Series	
	Desktop Processors with Radeon <sup>™</sup> Graphics	
	-SLOT5 supports PCIe3.0 only when installing AMD Ryzen <sup>™</sup> 5000, 4000 and	
	3000 G-Series Desktop Processors with Radeon <sup>™</sup> Graphics	
	-SLOT4 supports PCIe3.0 only when installing AMD Ryzen <sup>™</sup> 5000, 4000 G-	
	Series Desktop Processors with Radeon <sup>™</sup> Graphics	
	-SLOT4 will not function when installing AMD Ryzen" 3000 G-Series Desk- top Processors with Radeon" Graphics"	
	op 1 recessors with Museum Graphics	

X570D4U X570D4U-2L2T X570D4U-2L2T/BCM

Other PCIe Expansion Connectors		
M.2 slot	1 M-key (PCIe4.0 x4 or SATA 6Gb/s); support	
	22110/2280/2260/2242 form factor [CPU]	
	1 M-key (PCIe4.0 x4 or SATA 6Gb/s); support 2280/2260/2242	
	form factor [FCH]	
Note	-M.2 supports PCIe3.0 only when installing AMD Ryzen <sup>™</sup> 5000, 4000 and 3000 G-Series Desktop Processors with Radeon <sup>™</sup> Graphics	
SATA/SAS Storage	G-Series Desktop 1 rocessors with Rateon Graphics	
FCH Built-in	AMD X570 (Up to 10 SATA 6Gb/s):	
Storage	7 SATA 7-pin, 1 SATA DOM, 2 M.2	
Ethernet	/ 5ATA /-pii, 1 5ATA DOM, 2 M.2	
Additional	X570D4U:	
Ethernet	Intel® i210: 2 RJ45 (1GbE)	
Controller	X570D4U-2L2T:	
	Intel <sup>®</sup> X550-AT2: 2 RJ45 (10GbE)	
	Intel <sup>®</sup> i210: 2 RJ45 (1GbE)	
	X570D4U-2L2T/BCM:	
	Broadcom BCM57416: 2 RJ45 (10GbE)	
	Intel <sup>®</sup> i210: 2 RJ45 (1GbE)	
USB		
Controller/Hub	AMD X570	
Connectors/	External:	
headers	2 Type-A (USB3.2 Gen2)	
	Internal:	
	1 header (19-pin, 2 USB3.2 Gen1)	
Graphics		
Controller	ASPEED AST2500:	
	1 DB15 (VGA), 1 (15-pin) header	
	AMD Ryzen <sup>™</sup> desktop processors with Radeon <sup>™</sup> Graphics:	
	1 HDMI	
Security	TIDMI	
TPM	1 (17-pin, LPC), 1 (13-pin, SPI)	
Rear I/O		
UID button/LED	1 UID button w/ LED	
Video output	1 DB15 (VGA), 1 HDMI	
Serial port	1 DB9 (COM)	
USB	2 Type-A (USB3.2 Gen2)	
RJ45	X570D4U:	
	2 RJ45 (1GbE), 1 dedicated IPMI	
	X570D4U-2L2T / X570D4U-2L2T/BCM:	
	2 RJ45 (10GbE), 2 RJ45 (1GbE), 1 dedicated IPMI	
Note:	-HDMI is only supported by AMD Ryzen <sup>™</sup> with Radeon <sup>™</sup> Graphics Processors	
	1	

Hardware Monitor	
Temperature	CPU, FCH, DDR, MB, Card Side, LAN Temperature sensing
Fan	Fan Tachometer
	Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU
	Temperature)
	Fan Multi-Speed Control"
Voltage	3VSB, 5VSB, VCPU, VSOC, VCCM, APU VDDP, PM VDD
voltage	CLDO, PM VDDCR S5, PM VDDCR, BAT, 3V, 5V, 12V
Server Management	
BMC Controller	ASPEED AST2500: IPMI2.0 with iKVM and vMedia support
IPMI Dedicated	1 Realtek RTL8211E for dedicated management GLAN
GLAN	T Realier RTE0211E for dedicated management GEATV
System BIOS	
BIOS type	32MB AMI UEFI Legal BIOS
Features	Plug and Play, ACPI 2.0 compliance wake up events, SMBIOS
reatures	
Internal Commenterna	2.8, ASRock Rack instant flash
Internal Connectors	1
PSU connector	1 (24-pin, ATX main power), 1 (8-pin, ATX 12V)
Auxiliary panel	1 (includes chassis intrusion, location button & LED, front
header	LAN LED, system fault, and BMC alert)
System panel	1 (RST, PWRBTN, HDDLED, PWRLED)
header	
LAN3/LAN4 LED	<b>X570D4U:</b> N/A
header	X570D4U-2L2T / X570D4U-2L2T/BCM: 1
VGA header	1
Speaker header	1 (4-pin)
Fan header	3 (6-pin), 3 (4-pin)
Thermal sensor	1
header	
Buzzer	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)
LED Indicators	
Standby Power	1 (5VSB)
LED	
80 debug port LED	1
Fan Fail LED	6
BMC Heartbeat	1
LED	
	1

## X570D4U X570D4U-2L2T X570D4U-2L2T/BCM

Support OS		
Microsoft® Windows®:		
Windows 10 (64 bit)		
Linux*:		
- UBuntu 18.04 (64 bit)		
- RedHat Enterprise Linux Server 8.1 (64bit)		
* Please refer to our website for the latest OS support list.		
* The Linux system doesn't support Raid mode.		
* Supports UEFI BOOT only.		
10 - 35°C (50 - 95 degF)		
-40 - 70°C (-40 - 158degF)		

NOTE: Please refer to our website for the latest specifications.



This motherboard supports Wake from on Board LAN. To use this function, please make sure that the "Wake on Magic Packet from power off state" is enabled in Device Manager > Intel\* Ethernet Connection > Power Management. And the "PCI Devices Power On" is enabled in UEFI SETUP UTILITY > Advanced > ACPI Configuration. After that, onboard LAN3&4 can wake up S5 under OS.



If you install Intel<sup>\*</sup> LAN utility or Marvell SATA utility, this motherboard may fail Windows<sup>\*</sup> Hardware Quality Lab (WHQL) certification tests. If you install the drivers only, it will pass the WHQL tests.