

Z490D4U-2L2T

- Support Intel[®] 10th Gen. Core[™] i9/i7/i5/i3, Pentium, Celeron[®] Series Processors
- Support two channels DDR4 2933*/2666/2400 non-ECC DIMM
- Support 6 SATA3 by Intel[®] Z490(1x SATA3 support SATA DOM)
- Support 1x PCle 3.0 x16、 1x PCle 3.0 x8. 1xPCle 3.0x1
- Support 2 x GLAN by Intel[®] i210, 2 x 10G base-T by Intel[®] X710-AT2



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 multichannel 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 Download Manual CPU Support List Memory QVL TPM QVL News

Specifications

Physical Status		
Form Factor	Micro-ATX	
Dimensions	9.6" x 9.6" (244 mm x 244 mm)	
Processor System		
CPU	Support Intel [®] 10th Gen. Core™ i9/i7/i5/i3, Pentium, Celeron [®] Series Processors	
Chipset	Intel® Z490	
System Memory		
Supported DIMM Quantity	4 x 288-pin DDR4 DIMM slots Support up to 128GB DDR4 non-ECC UDIMM	
Supported Type	Dual Channel DDR4 memory technology Supports DDR4 non-ECC UDIMM	
Max. Capacity per DIMM	non-ECC UDIMM : 32GB, 16GB, 8GB, 4GB	
Max. DIMM Frequency	Non-ECC UDIMM: 2933*/2666/2400 MHz *Core™ (i9/i7) support DDR4 up to 2933; Core™ (i5/i3), Pentium® and Celeron® support DDR4 up to 2666.	
Voltage	1.2V	
PCIe Expansion Slots (SLOT7 close to CPU)		
PCle x 16	SLOT6: PCle3.0 x16, auto switch to x8 when SLOT4 is occupied (Physical x16, EE x16/x8 (from CPU), shared with SLOT4)	
PCle x 8	SLOT4: PCle3.0 x8 (Physical x8, EE x0/x8 (from CPU), shared with SLOT6)	
PCle x 1	SLOT7: PCle3.0 x1 (Physical x1, EEx1 (from PCH))	
Other PCIe Expansion Connectors		
M.2 slot	2 (M2_1: 2260/2280/22110, Supports PCIE3.0(x4); M2_2:2260/2280, Supports PCIE3.0(x4))* *The M.2 slot (M2_2) is shared with the PCIE5 slot (BTO). When M2_2 is populated with a M.2 PCIe module, PCIE5 will be disabled.	
SATA/SAS Storage		
PCH Built-in Storage	6 x SATA3 6Gb/s (SATA0-5, SATA_0 supports SATA DOM)	
Ethernet		
Interface	10000/1000 /100 Mbps	
Additional GbE Controller	2 x RJ45 GLAN by Intel [®] i210	

2 x RJ45 10G base-T by Intel® X710-AT2 1 x RJ45 Dedicated IPMI LAN port by RTL8211E Supports Wake-On-LAN Supports Energy Efficient Ethernet 802.3az Supports Dual LAN with Teaming function Supports PXE LAN1 supports NCSI ASPEED AST2500 IPMI Dedicated GLAN 1 x Realtek RTL8211E for dedicated management GLAN

1 (includes chassis intrusion, location button & LED, and front LAN LED)

1 (RST, PWRBTN, HDDLED, PWRLED)

7 (1CPU/4Front/2Rear)

1 (19-pin, 2 USB3.2 Gen1)

1 (13-pin, SPI)

Server Management **BMC** Controller

Watch Dog

DDR4 256MB

1 x D-Sub, 1 HDMI

NMI

Graphics Controller ASPEED AST2500

VRAM Rear I/O

Features

UID Button/LED VGA Port

Serial Port USB 3.2 Gen1 Port

2 Type-A (USB3.2 Gen1) USB 3.2 Gen2 Port 2 Type-A (USB3.2 Gen2) 4 +1 RJ45 Gigabit Ethernet LAN ports RJ45 LAN Ports with LED (ACT/LINK LED and SPEED LED)

Internal Connector/Headers Power Connector 1x (24-pin) + 1x (8-pin)+ 1x (4-pin)

Auxiliary Panel Header

System Panel VGA header

Buzzer Fan Header Thermal Sensor Header TPM Header

> SGPIO Header SMBus header PMBus header

IPMB Header Clear CMOS 1 (short pin) ME/SPS Recovery

Front Lan LED Connector USB 3.2 (Gen1) Header

USB 2.0 Header 1 (9-pin, 2 USB 2.0) NMI Header 1 **LED Indicators**

80 Debug Port LED Fan Fail LED 7 (header)

System BIOS **BIOS Type**

256 Mb AMI UEFI Legal BIOS Plug and Play (PnP) **BIOS Features**

Hardware Monitor

Temperature

Fan

ACPI 2.0 Compliance Wake Up Events SMBIOS 2.8.0 Support ASRock Rack Instant Flash CPU Temperature Sensing MB/Card side/TR1 Temperature Sensing

CPU/Rear/Front Fan Tachometer

	CPU Quiet Fan (Allo w Chassis Fan Speed Auto-Adjust by CPU Temperature)	
	CPU/Rear/Front Fan Multi-Speed Control	
Voltage	Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore, DRAM, V1.0M,+BAT, 3VSB, 5VSB	
Supported OS		
	Microsoft® Windows:	
	Windows® 10 (64 bit)	
OS	Linux: RedHat Enterprise Linux Server 7.7 (64 bit) / 8.1 (64 bit) CentOs 7.7 (64 bit) / 8.1 (64 bit) SUSE Enterprise Linux Server 12 SP5 (64 bit) / 15 SP1 (64 bit) Ubuntu 19.04 (64 bit) / 20.04 (64 bit) Hypervisor: VMWare® ESXi 7.0.0/ vSphere 7.0.0	
	* Z490D4U-2L2T support Legacy and UEFI BOOT.	
	* The Intel [®] RAID mode is not supported on the Linux system.	
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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