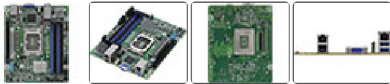


## Z690D4ID-2T/G5/X550

- Deep mini-ITX (6.7" x 8.2")
- Supports Intel® Core™ 14th Gen, 13th & 12th Gen Intel® Core™, Pentium® and Celeron® series processors
- 4 DIMM slots (2DPC), supports DDR5 non-ECC UDIMM Memory
- 1 PCIe5.0 x16
- 1 OCuLink (PCIe4.0 x4), 1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s), 1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s)
- Supports 2 M.2 (PCIe4.0 x4)
- 8 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel X550
- Remote management (IPMI)



**HDMI™ (High-Definition Multimedia Interface)**

**HDMI** 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>Physical Status</b>	
Form Factor	Deep mini-ITX
Dimensions	6.7" x 8.2"
<b>Processor System</b>	
CPU	Supports Intel® Core™ 14th Gen, 13th & 12th Gen Intel® Core™, Pentium® and Celeron® series processors
Socket	Single Socket LGA 1700
Thermal Design Power	125W
Chipset	Intel® Z690
<b>System Memory</b>	
Supported DIMM Quantity	4 DIMM slots (2DPC)
Supported Type	DDR5 288-pin non-ECC UDIMM
Max. Capacity per DIMM	48GB on Intel® Core™ 14th Gen, 13th Gen Intel® Core™ processors 32GB on 12th Gen Intel® Core™ processors
Max. DIMM Frequency	4400MT/s (2DPC-1DIMM) / 4000MT/s (2DPC-2DIMM 1R) / 3600MT/s (2DPC-2DIMM 2R)
Voltage	1.1V
<b>PCIe Expansion Slots (SLOT7 close to CPU)</b>	
PCIe x 16	SLOT7: PCIe5.0 x16 [CPU]
<b>Other PCIe Expansion Connectors</b>	
M.2 slot	1 M-key (PCIe4.0 x4); support 2280 form factor [CPU] 1 M-key (PCIe4.0 x4); support 2280 form factor [PCH]
OCuLink	1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe4.0 x4) [PCH]
<b>SATA/SAS Storage</b>	
PCH Built-in Storage	Intel Z690 (up to 8 SATA 6Gb/s; RAID 0/1/5/10): 2 OCuLink for 8 SATA
<b>Ethernet</b>	
Additional GbE Controller	2 RJ45 (10GbE) by Intel® X550
<b>Server Management</b>	
BMC Controller	ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
IPMI Dedicated GLAN	1 RJ45 Dedicated IPMI LAN port by Realtek RTL8211F
<b>Graphics</b>	
Controller	ASPEED AST2600: 1 DB15 (VGA) Intel® Integrated Processor Graphics: 1 HDMI
<b>Rear I/O</b>	
UID Button/LED	1 UID button, 1 UID LED

VGA Port	1 DB15 (VGA), 1 HDMI
USB 3.2 Gen1 Port	2 Type A (USB3.2 Gen1)
RJ45	2 RJ45(10GbE), 1 dedicated IPMI
<b>Internal Connector/Headers</b>	
Power Connector	1 (4-pin, ATX PSU signal) w/ ATX 24-pin adapter cable, 2 (8-pin, ATX 12V) support 12V DC-in
Other Power Connectors	1 (4-pin) for HDD power when using 12V DC-in power source
Auxiliary Panel Header	1 (9-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED
COM Header	1
Speaker Header	1
Fan Header	3 (4-pin)
Thermal Sensor Header	1
TPM Header	1 (13-pin, SPI)
SGPIO Header	1
SMBus header	1
PMBus header	1
IPMB Header	1
Clear CMOS	1 (2-pin)
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1)
NMI Header	1
<b>LED Indicators</b>	
Standby PWR LED	1
Fan Fail LED	3
BMC heartbeat LED	1
<b>System BIOS</b>	
BIOS Type	AMI 256Mb SPI Flash ROM
BIOS Features	Plug and Play(PnP), ACPI 6.4 and above compliance wake up events, SMBIOS 3.6.0 and above, ASRock Rack instant flash
<b>Hardware Monitor</b>	
Temperature	CPU, MB, VR, M.2, X550 Temperature Sensing
Fan	Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	5VSB, 3VSB, VCORE, VCCIN_AUX, VDD2, 1.05V_PCH, 0V82SB_PCH, VCCGT, 1V8SB, 3V,5V, 12V, BAT, VCCSA
<b>Supported OS</b>	
OS	Windows® 10 (64 bit) Windows® 11 (64 bit)
<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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