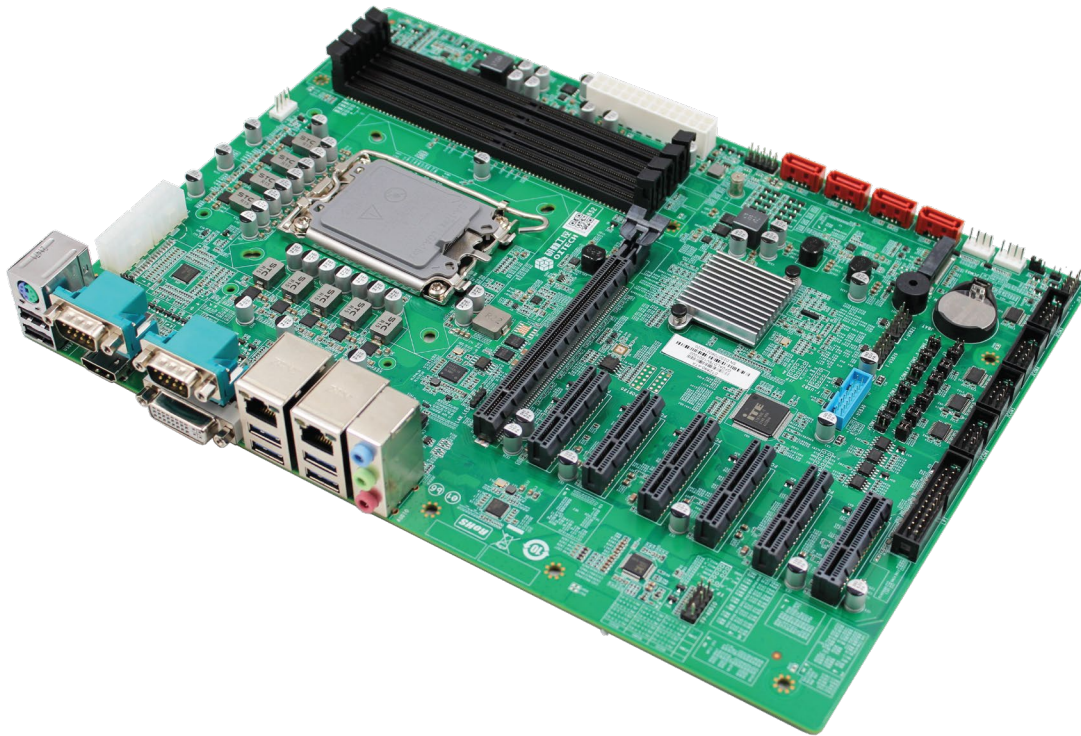


ALD-75

Intel® Alder Lake-S(LGA1700 Socket) Processor based ATX
Motherboard with Z690/Q670/H670



Features

- CPU: Intel® Alder Lake-S LGA1700 Socket
- Memory: 4x UDIMM DDR4 Up to 128GB
- Display: Integrated Graphics display via HDMI+DVI-I(VGA)
- Ethernet Controllers: 1xIntel® i219+1xIntel® i226
- Storage: 1xM.2 for NVMe SSD, 4xSATA
- Expansion: 1*PCIe2X, 1*PCIe16X, 5*PCIe4X(Z690) or 4*PCIe4X(Q670/H670)
- Power: ATX_24PIN + 2*8PIN



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Introduction

The ALD-75 ATX motherboard is based on the Intel® Alder Lake-S series processor with Z690/Q670/H670 Chipset, providing a complete PC platform with powerful performance. It supports dual displays in addition to four UDIMM DDR4 memory; features Intel i219 and i226 Ethernet controllers, up to 2.5GbE for high-speed communication. It has four SATA plus M.2 for storage; and a rich I/O interface that includes 6xCOM, 6 x USB2.0, 6 x USB3.2, and up to 7xPCIe for greater expansion.

The ALD-75 is an ideal solution for various industrial applications, it retains a robust design that can cope with extreme conditions. Our goal is to provide an excellent customer experience with a reliable product for more flexibility.



H/W Monitor



Watchdog

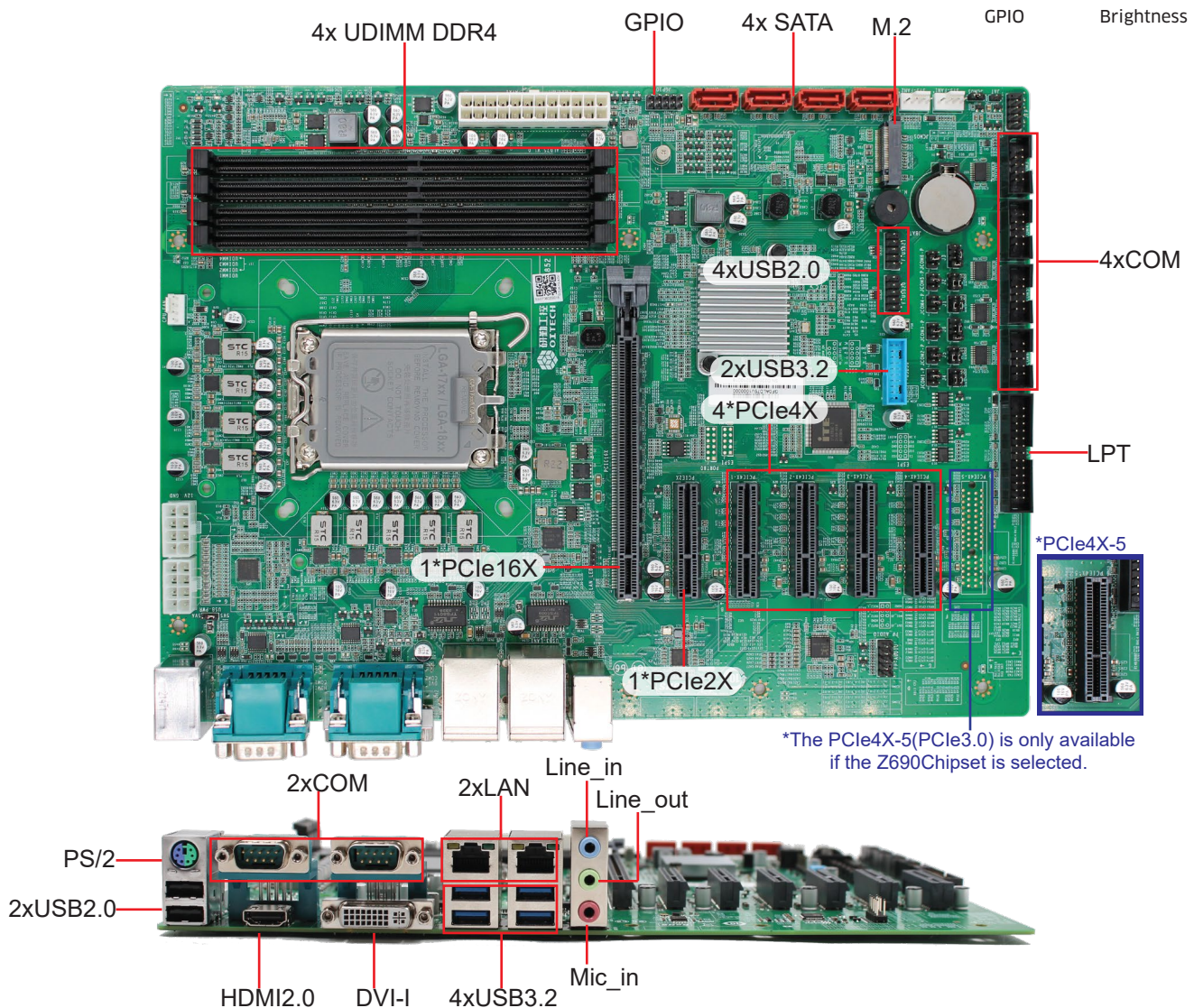


GPIO



Brightness

I/O Interfaces

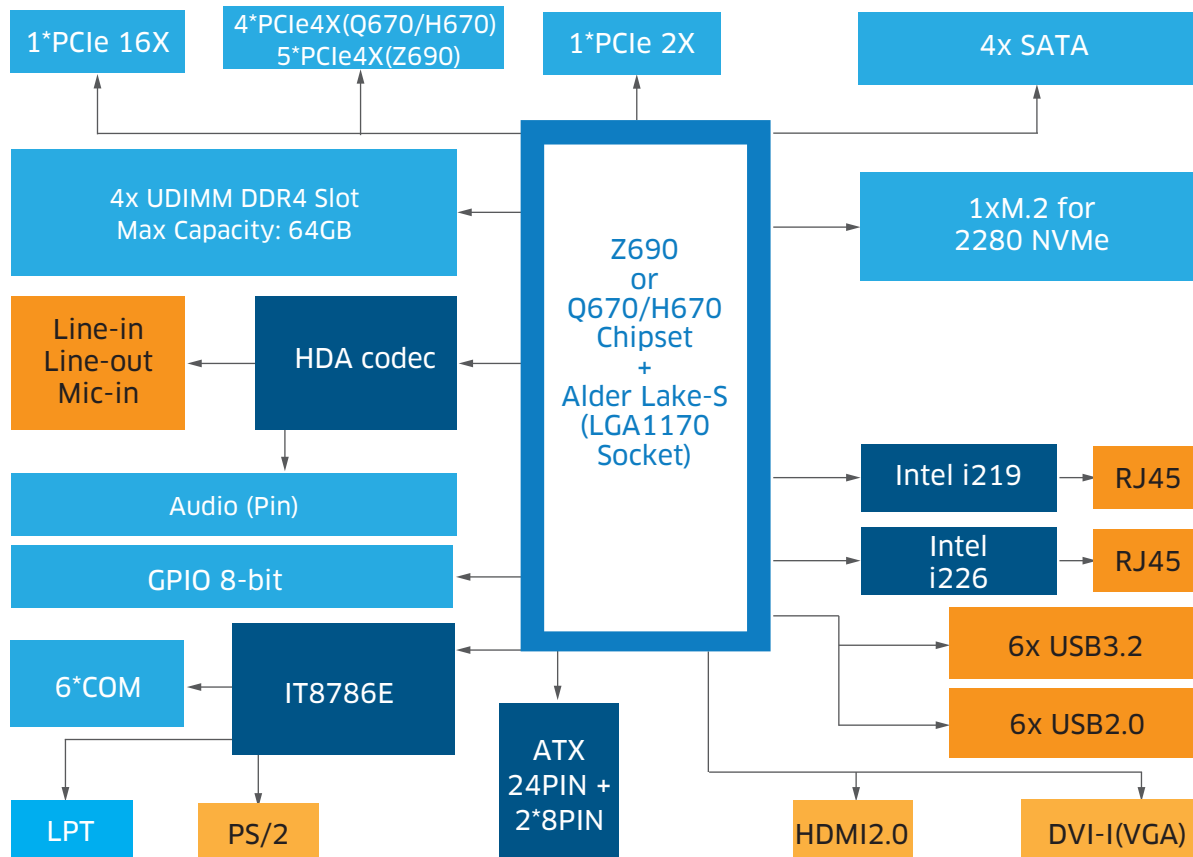


*The PCIe4X-5(PCIe3.0) is only available if the Z690Chipset is selected.

Technical Specifications

Processor	CPU	Intel® Alder Lake-S/Raptor Lake Processor (LGA1700)	
	Chipset	Q670/H670/Z690	
Memory	Type	4x UDIMM DDR4-3200	
	Max Capacity	Up to 128GB	
Display	GPU	Intel® Integrated Graphics based on CPU	
	Port	1x HDMI® +1x DVI-I(VGA)	
Ethernet	Controller	Intel® i219, Data Rate Per Port:1.0GbE	
		Intel® i226, Data Rate Per Port:2.5GbE	
	Interface	2x RJ45	
	Wake on LAN	Yes	
CPU.	AMT	Yes. Intel® Active Management Technology. Only for selected models, varies on	
	TXT	Yes. Intel® Trusted Execution Technology. Only for selected models, varies on CPU.	
Audio	Audio Codec	Realtek HD	
	Interface	1xLine-in+1xLine-out+1xMic-in,	
Hardware		CPU and system temperature, on-board voltage, watchdog	
Storage	SATA	4x SATA	
	M.2	1x M.2 for 2280 NVMe(PCIe4.0)/SATA SSD	
Expansion	PCIe5.0	1(PCIe16X)	
	PCIe4.0	3(PCIe4X-1,PCIe4X-3,PCIe4X-4)	
	PCIe3.0	2(PCIe2X, PCIe4X-2) if Q670/H670 Chipset is selected. or 3(PCIe2X, PCIe4X-2,PCIe4X-5,) if Z690 Chipset is selected.	
I/O Interface	LAN	2	
	COM	6xCOM: 6*RS232 default The COM5, COM6 can be set as RS485/RS422 by jumper	
	USB2.0	2x USB2.0 Ports+ 4x USB2.0 Header	
	USB3.2	4x USB3.2 Ports + 2x USB3.2 Header	
	HDMI2.0	1	
	DVI-I	1	
	Audio	1xLine-in + 1x Line-out + 1x Mic-in	
	PS/2	1 (for PS/2 keyboard and mouse)	
	GPIO	8-bit	
	LPT	1	
	TPM2.0	Optional	
	Dimension	Size	304.8mm x 218.44mm
		Board Type	ATX
Power	Standard Port	ATX_24PIN + 2*8PIN	
	Peripheral Input	For Fan and SATA (Compatible with 1150X)	
Temperature	Operating Temp.	0 ~ 60° C, depends on CPU speed and cooler solution	
	Storage Temp.	-40 ~ 85° C	
Operating System		Windows 10/11, Linux	

Functional Block Diagram



Order Information

Model Name	Description
DTZ690-ATX	DT Intel Z690 ALD75 ATX 2LAN(I219+I226) 6*COM HDMI+DVI-I 1xPCIE16X+1xPCIE2X+5xPCIE4X

*For customized options, please consult regional sales. And please confirm the model name and description before purchasing. *The model name and description might vary due to inventory changes.

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