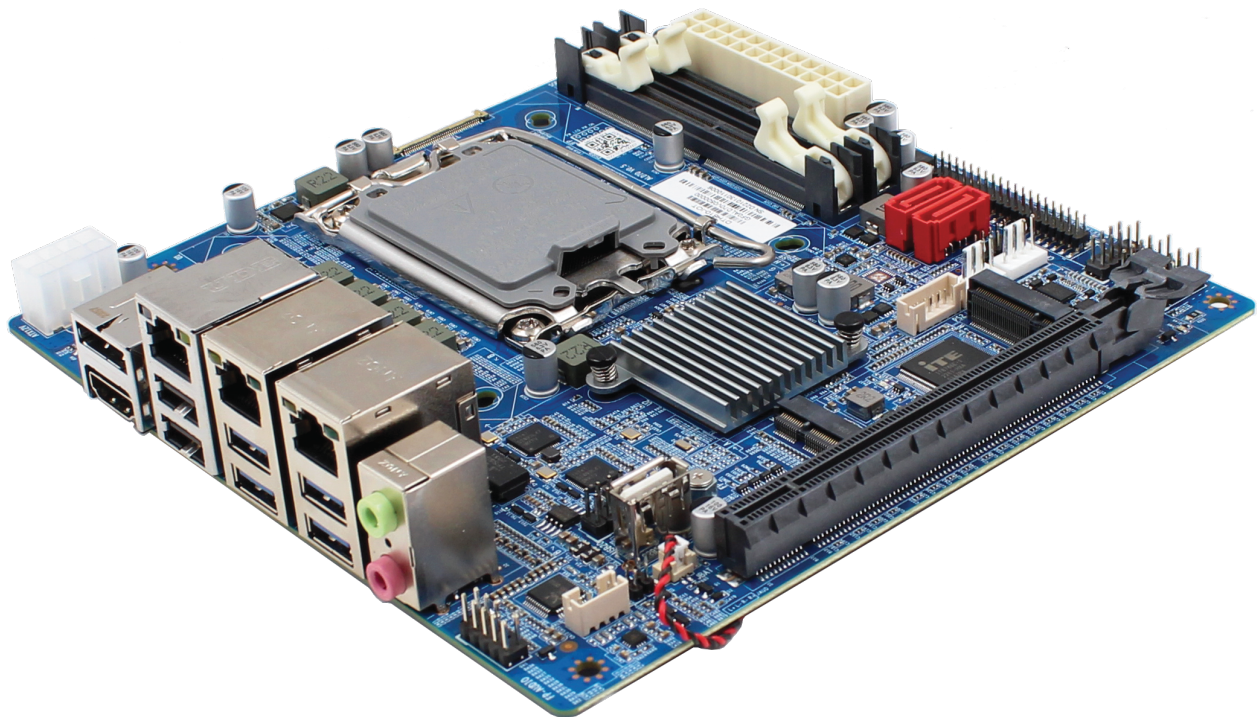


# ALD-70

## 12th Gen Intel® Alder Lake-S Processor with H610 chipset based Mini ITX Motherboard



### Features

- CPU: Intel® Alder Lake-S Series Processor + H610 Chipset
- Memory: Dual channel SO-DIMM DDR4 Up to 64GB
- Display: Integrated Graphics, display via DP+HDMI+eDP
- Ethernet Controllers: 1xIntel i219+2xIntel i226
- Storage: SATA3.0, M.2 for SSD
- Expansion: PCIe 16X, M.2 for WiFi
- Power: ATX input



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## Introduction

The Maxtang mini ITX ALD-70 embedded motherboard is based on an LGA1700 socket; select from the 12th Gen Intel® Alder Lake-S series desktop processor with an H610 chipset. Provides a complete PC platform with powerful performance; supports trio displays via HDMI+DP+eDP(the eDP can be expanded to LVDs/DP/HDMI) in addition to dual-channel SO-DIMM DDR4 memory. The board has one Intel i219 and two i226 Ethernet controllers up to 2.5GbE for high-speed communication. A rich I/O interface includes 6xCOM, GPIO, PS/2, and plenty of USB ports for other usages.

The ALD-70 is an ideal solution for various applications. It retains the robust design like all other Maxtang products with cost advantages. Our goal is to provide the customer excellent user experience with a reliable product for more flexibility and productivity.



H/W Monitor



Watchdog

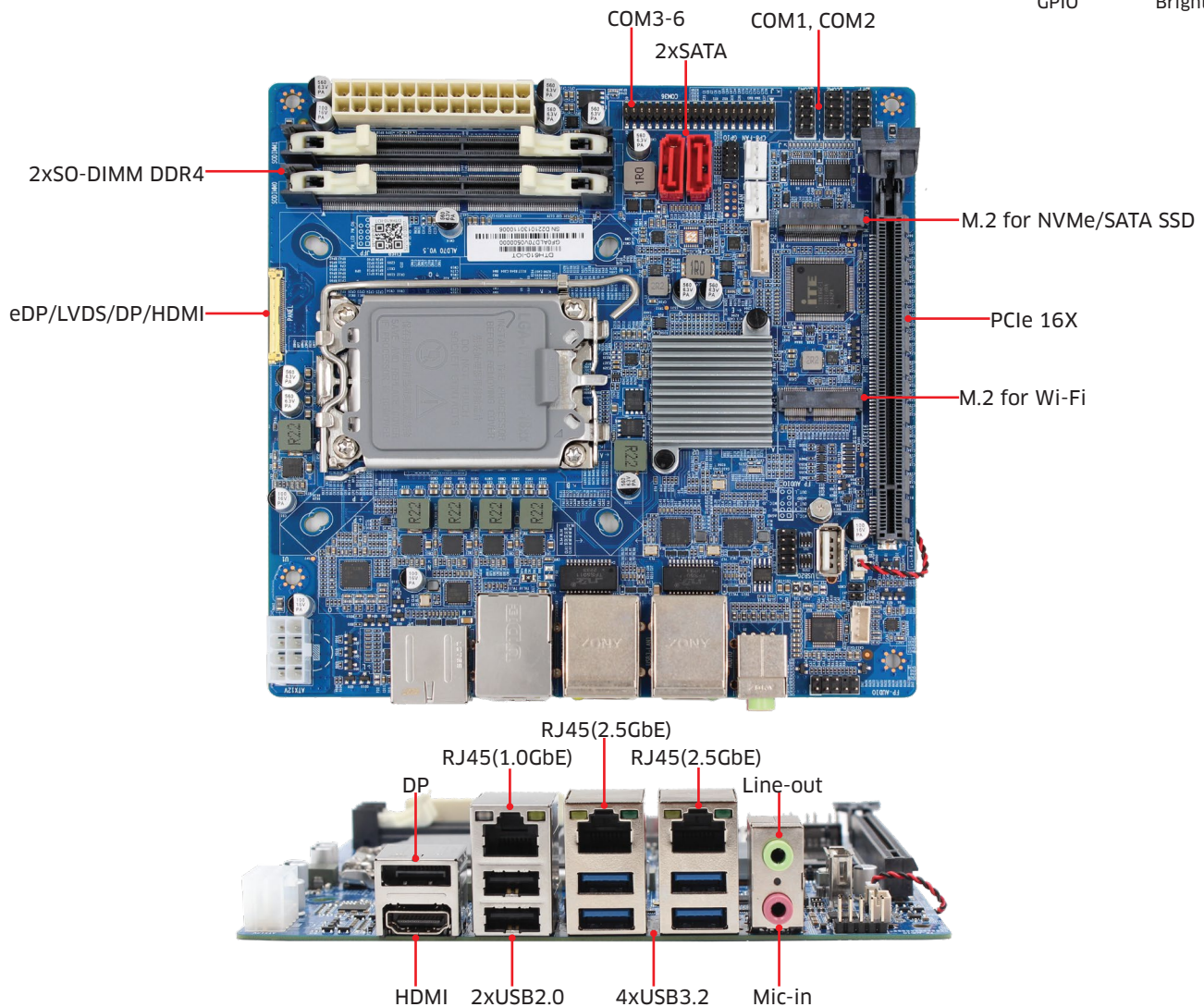


GPIO



Brightness

## I/O Interfaces

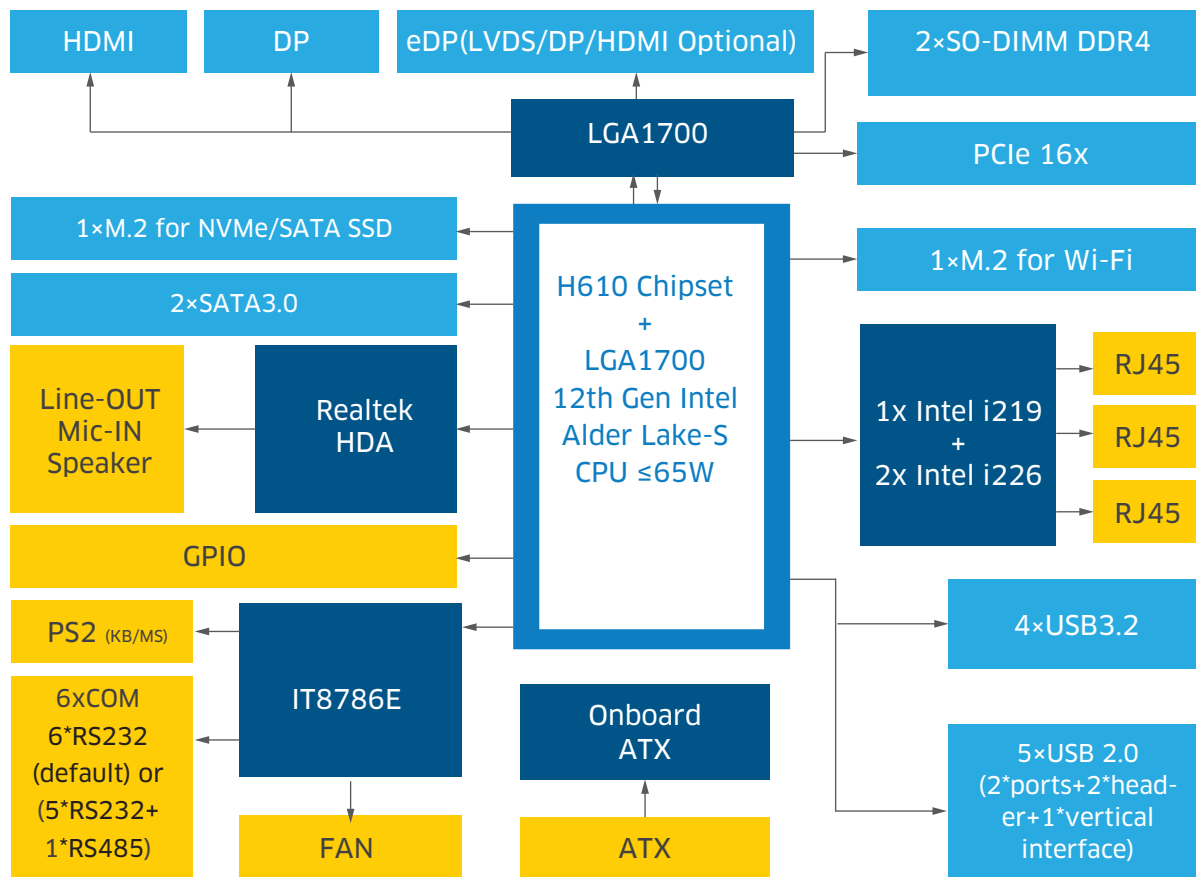


## Technical Specifications

Processor	CPU	Alder Lake-S Series Processor ≤65W	
	Socket	LGA1700 Socket	
	Chipset	Intel H610	
	BIOS	AMI UEFI BIOS	
Memory	Type	Dual Channel SO-DIMM DDR4	
	Max. Capacity	64GB	
Display	GPU	Intel® Integrated graphics	
	Display via	1xDP+1xHDMI+1x eDP(the eDP can be expanded to LVDs/DP/HDMI)	
Ethernet	Controller	1x Intel i219, Data Rate Per Port:1.0GbE 2x Intel i226, Data Rate Per Port:2.5GbE	
	Interface	3xRJ45	
	Wake on LAN	Yes	
	Audio Codec	Realtek HD	
Audio	Interface	Line-out, (line-in optional), Mic-in, supports audio header, amplifier header	
Hardware		CPU system temperature, On-board voltage, Watchdog, Auto power on	
Storage	M.2	1x M.2 for 2280 NVMe/SATA SSD	
	SATA3.0	2	
Expansion	M.2	1x M.2 for Wi-Fi, support Intel® Integrated Connectivity (CNVi)	
	PCIe5.0	1*PCIe16X	
I/O Interface	LAN	3	
	COM	6xCOM: 6*RS232(default) or 5*RS232+1*RS485(COM2)	
	USB2.0	5 (2*ports+2*header+1*vertical interface)	
	USB3.2	4	
	Audio	1x Line-out, 1x Mic-in	
	GPIO	8 (one group)	
	PS/2	1	
	TPM	Optional	
	Dimension	Size	170mm x 170mm
		Board Type	Mini ITX
Power	Standard Port	24-pin ATX + 12V auxiliary ATX supply (2x4)	
	Peripheral Input	For Fan and SATA	
Temperature	Operating Temp.	-20°C to 60°C	
	Storage Temp.	-40°C to 80°C	
Operating System		Windows 10/11, Linux	

\* All specifications and photos are subject to change without notice.

## Functional Block Diagram



## Order Information

Model Name	Description
DTH610-IOT	DT Intel H610 ALD70 170*170MM IOT 3LAN 6*RS232

\*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.