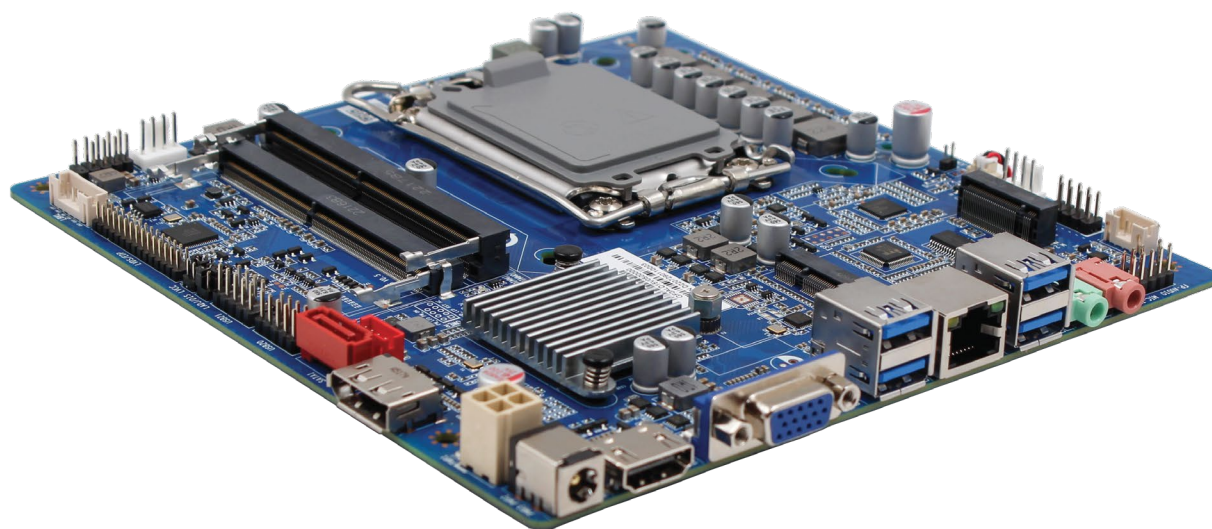# ALD-15

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

Features

- CPU: 12th Gen Intel Core™, Celeron® and Pentium® Processor+H610
- Memory: Dual Channel SO-DIMM DDR4 up to 64GB
- Display: Integrated Graphics via DP, HDMI, LVDS/eDP, VGA
- Ethernet: 10/100/1000 Mbps
- Storage: SATA3.0, M.2 for SATA/NVMe SSD (PICe4X Signal)
- Expansion: M.2 for WiFi, support PCIe/CNVi/USB2.0
- Power: 19V DC input

(intel®) IoT Solutions Alliance
Industrial Solution Builders Specialist

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Introduction

The Maxtang mini ITX ALD-15 embedded motherboard is based on an LGA1700 socket; select from the 12th Gen Intel® Core™ i3/i5/i7/i9, Celeron® and Pentium® (Code name: Alder Lake) processors with an H610 chipset. It provides a complete PC platform with powerful performance; supports trio displays via HDMI+VGA+DP or LVDs/eDP in addition to dual-channel SO-DIMM DDR4 memory. Features with 1-Gigabit ethernet controllers, M.2_E for WiFi, M.2_N and SATA3.0 for storage, and plenty of USB ports for other usages.

The ALD-15 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 great user experience with a reliable product for more flexibility and productivity.
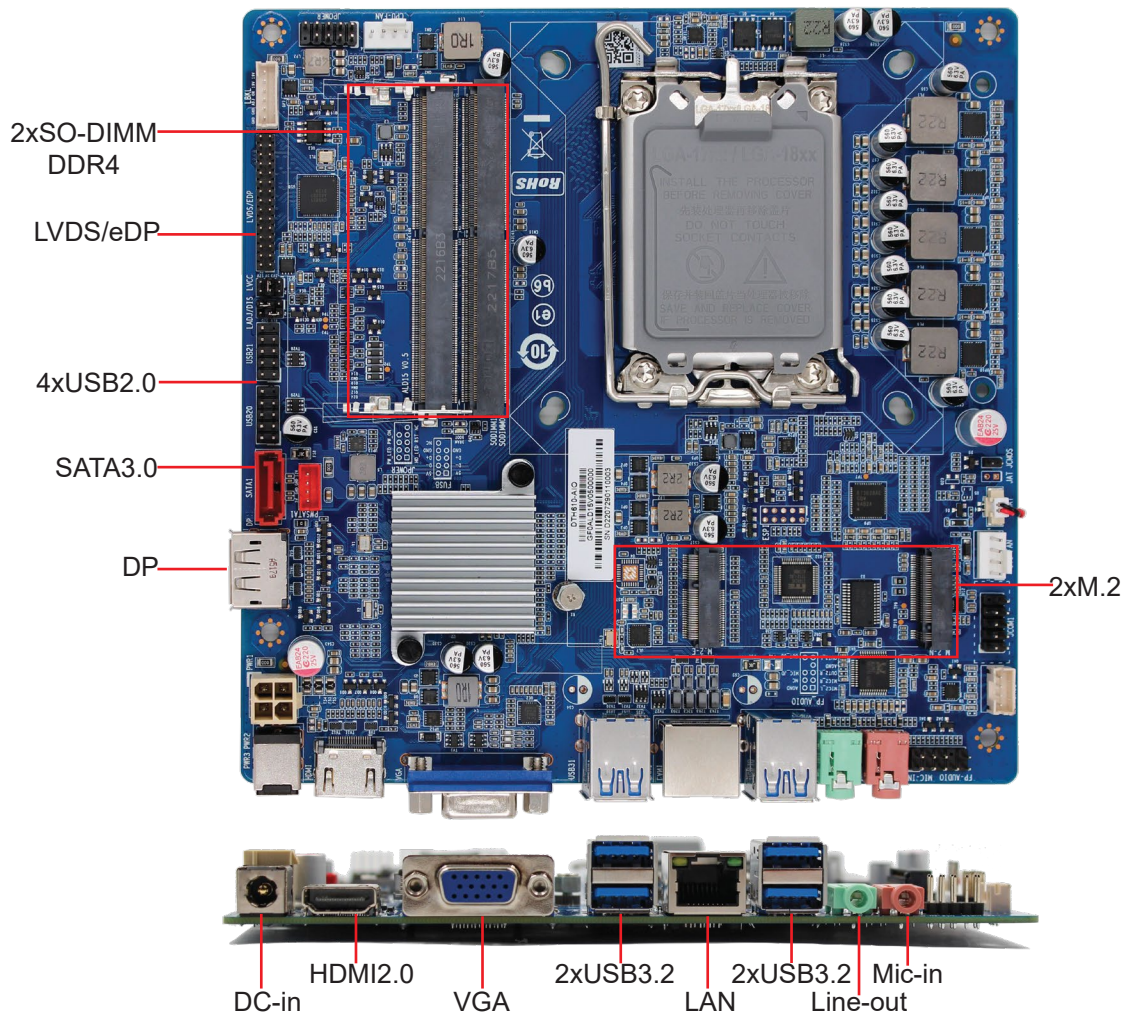
Linux™

ubuntu Linux

Windows

H/W Monitor   Watchdog

GPIO   Brightness

I/O Interfaces

2xSO-DIMM DDR4

LVDS/eDP

4xUSB2.0

SATA3.0

DP

2xM.2
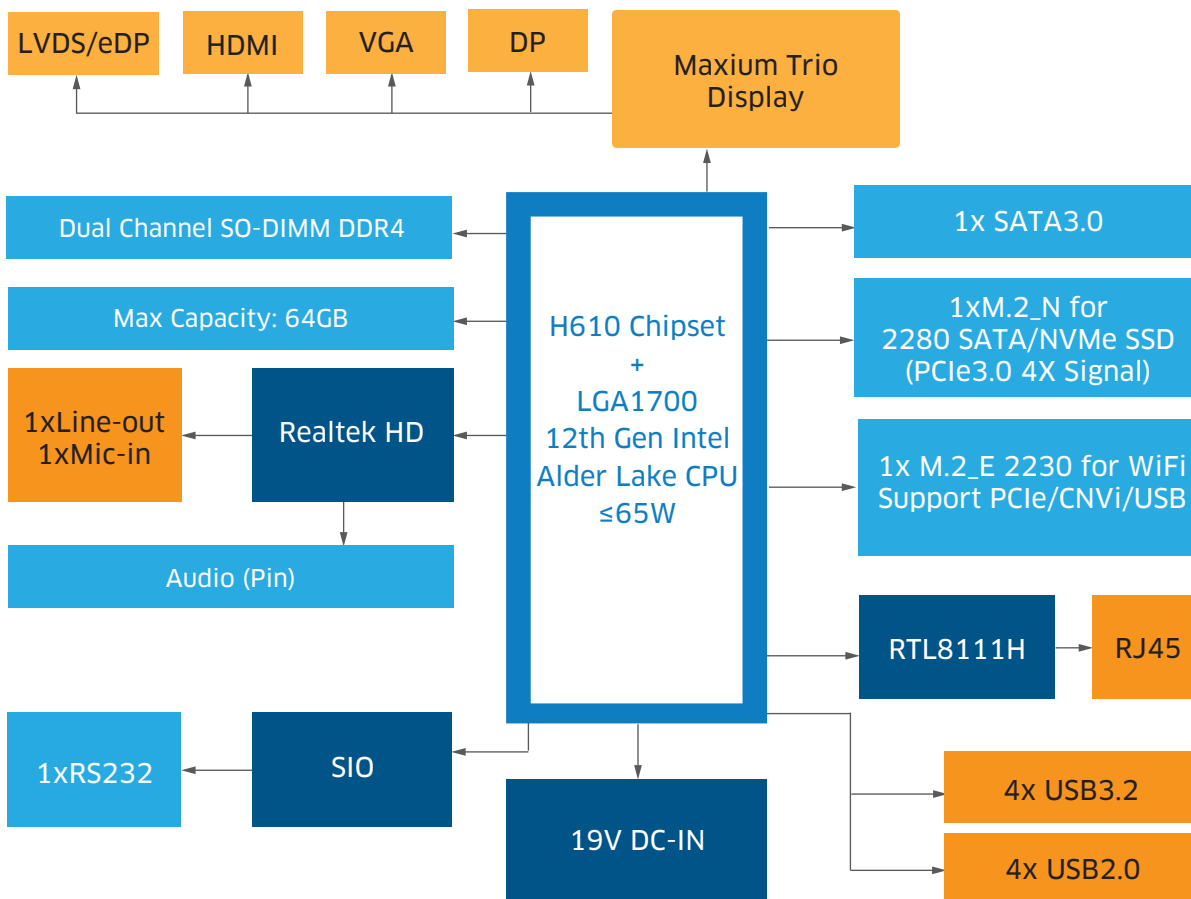
DC-in   HDMI2.0   VGA   2xUSB3.2   LAN   2xUSB3.2   Mic-in   Line-out

Technical Specifications

Processor	CPU	12th Gen Intel® Core™ i3/i5/i7/i9, Celeron® and Pentium® Processor ≤65W
	Socket	FCLGA1700
	Chipset	H610
	BIOS	AMI UEFI BIOS
Memory	Type	Dual Channel SO-DIMM DDR4
	Max.Capacity	64 GB
Display	GPU	Intel® Integrated graphics
	Display via	1 x HDMI+1xVGA+1xDP+1xLVDs/eDP, Maximum Trio Display.
Ethernet	Speed	10/100/1000 Mbps
	Controller	RTL8111H
	Interface	RJ45
Audio	Audio codec	Realtek HD
	Interface	Line-out, Mic-in, supports audio header and power amplifier header
Hardware		CPU temperature, System temperature, On-board voltage, Watchdog
Storage	M.2	1x M.2_N 2280 for SATA/NVMe SSD (PCIe3.0 4X signal)
	SATA3.0	1
Expansion	M.2	1x M.2_E 2230 for WiFi, support PCIe/CNVi/USB2.0
I/O Interface	JCOM	1
	LAN	1
	USB3.2	4
	USB2.0	4
	Audio	1x line-out + 1x mic-in
Dimension	Size	170mm x 170mm
	Board Type	Mini ITX
Power	Standard Port	19V DC-in
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Operating System		Windows 10/11 64bit, Linux 64bit

All specifications and photos are subject to change without notice.

Connector Diagram

LVDS/eDP

HDMI

VGA

DP

Maxium Trio Display

Dual Channel SO-DIMM DDR4

Max Capacity: 64GB

1xLine-out 1xMic-in

Realtek HD

H610 Chipset
+
LGA1700
12th Gen Intel
Alder Lake CPU
≤65W

Audio (Pin)

1x SATA3.0

1xM.2_N for
2280 SATA/NVMe SSD
(PCIe3.0 4X Signal)

1x M.2_E 2230 for WiFi
Support PCIe/CNVi/USB

RTL8111H

RJ45

1xRS232

SIO

19V DC-IN

4x USB3.2

4x USB2.0

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