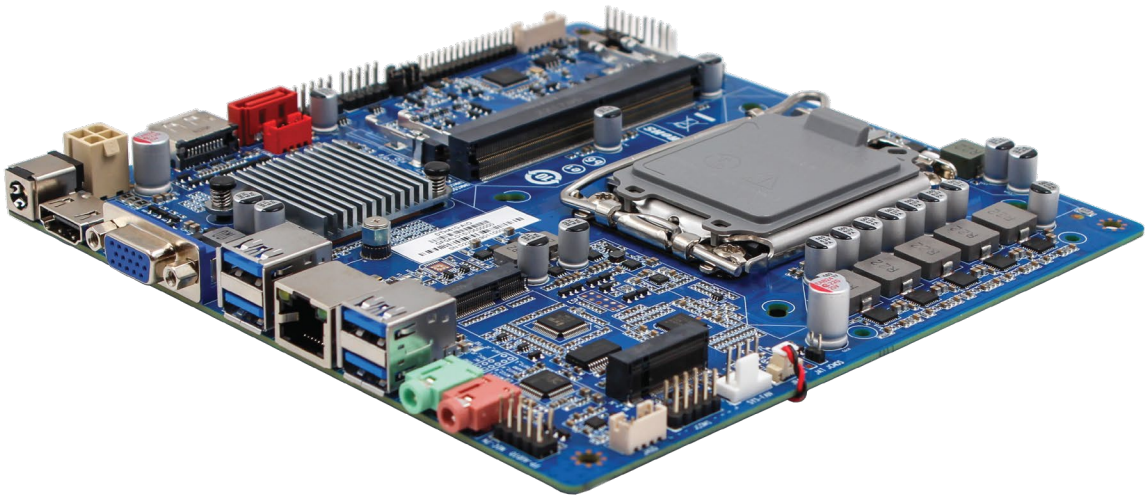
PRODUCT DATASHEET
HW Rev.: V1.0

ALD-15

Intel® 12th/13th/14th Gen Desktop Series Processor with H610 chipset based Mini ITX Motherboard



Features

- CPU: Intel® 12th/13th/14th Gen Desktop Series Processor+H610
- Memory: Dual channel SO-DIMM DDR4 up to 64GB
- GPU: Integrated Graphics via DP, HDMI, VGA, LVDS/eDP
- Ethernet: Realtek RTL8111H, 10/100/1000Mbps
- Storage: M.2 Key M for SATA/NVMe SSD (PICe3.0 x4 Signal), SATA3.0
- Expansion: M.2 Key E for WiFi & BT, support PCIe/CNVi/USB2.0
- Power: 19V DC-in

intel prestige partner Builder

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Introduction

The ALD-15 is a Mini-ITX motherboard based on Intel® 12th, 13th, and 14th Gen Desktop Series Processors (≤65W, Alder Lake-S/Raptor Lake-S), designed to deliver strong performance and stability in compact form factors. With the Intel® H610 chipset, dual-channel DDR4 SO-DIMM memory up to 64GB, and integrated Intel® Graphics, it provides reliable computing power with flexible triple-display output via HDMI, VGA, DP, and LVDS/eDP – making it an excellent choice for All-in-One (AIO) systems.

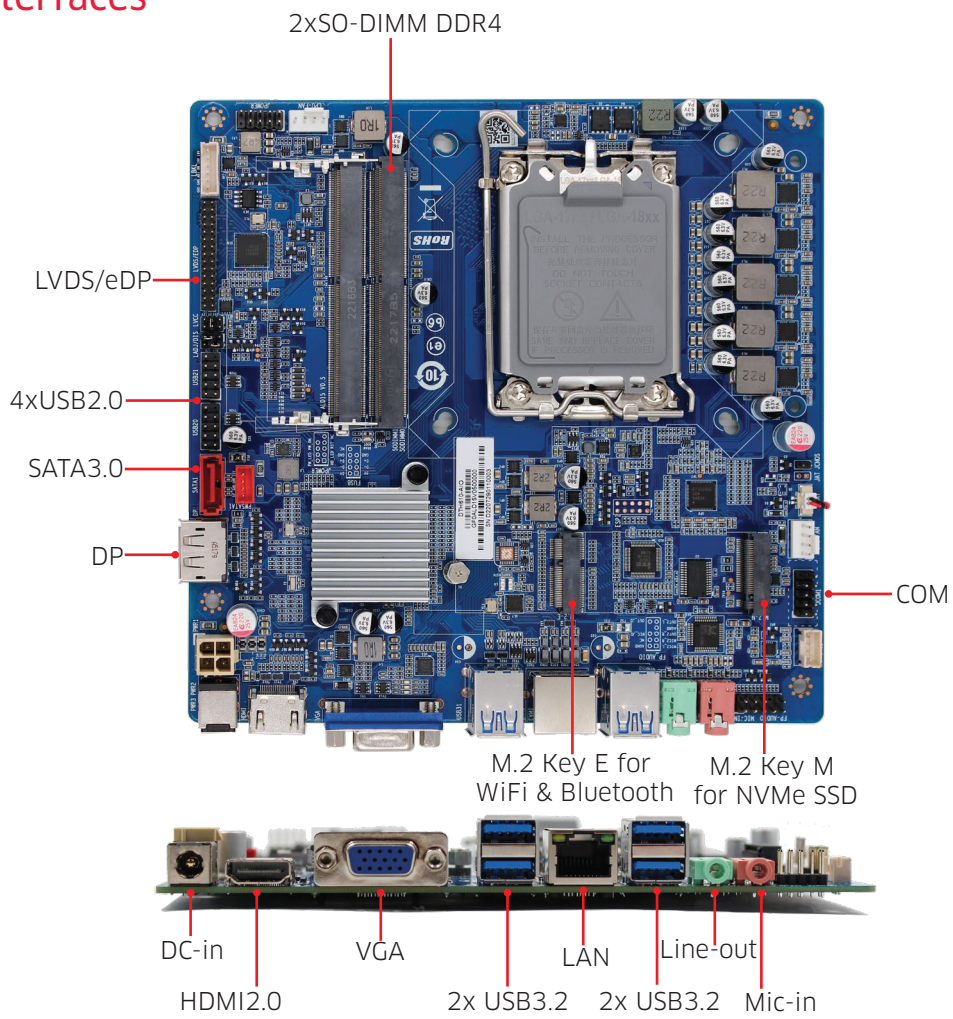
Built for stability and integration, the ALD-15 features Realtek® RTL8111H Gigabit Ethernet, Realtek® ALC897 audio, and flexible storage with one M.2 Key M slot for SATA/NVMe SSDs plus one SATA3.0 port. Wireless connectivity can be added through an M.2 Key E slot for WiFi/BT modules. Rich I/O including 4USB3.2, 4USB2.0, RS232, and audio headers provide versatile connectivity. With 19V DC-in power input, wide operating temperature (-20°C~60°C), and support for Windows 10/11 64-bit and Linux 64-bit, the ALD-15 is a reliable platform for high-performance AIO PCs and embedded applications.

Linux
ubuntu
Windows

H/W Monitor
Watchdog
GPIO
Brightness

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

I/O Interfaces

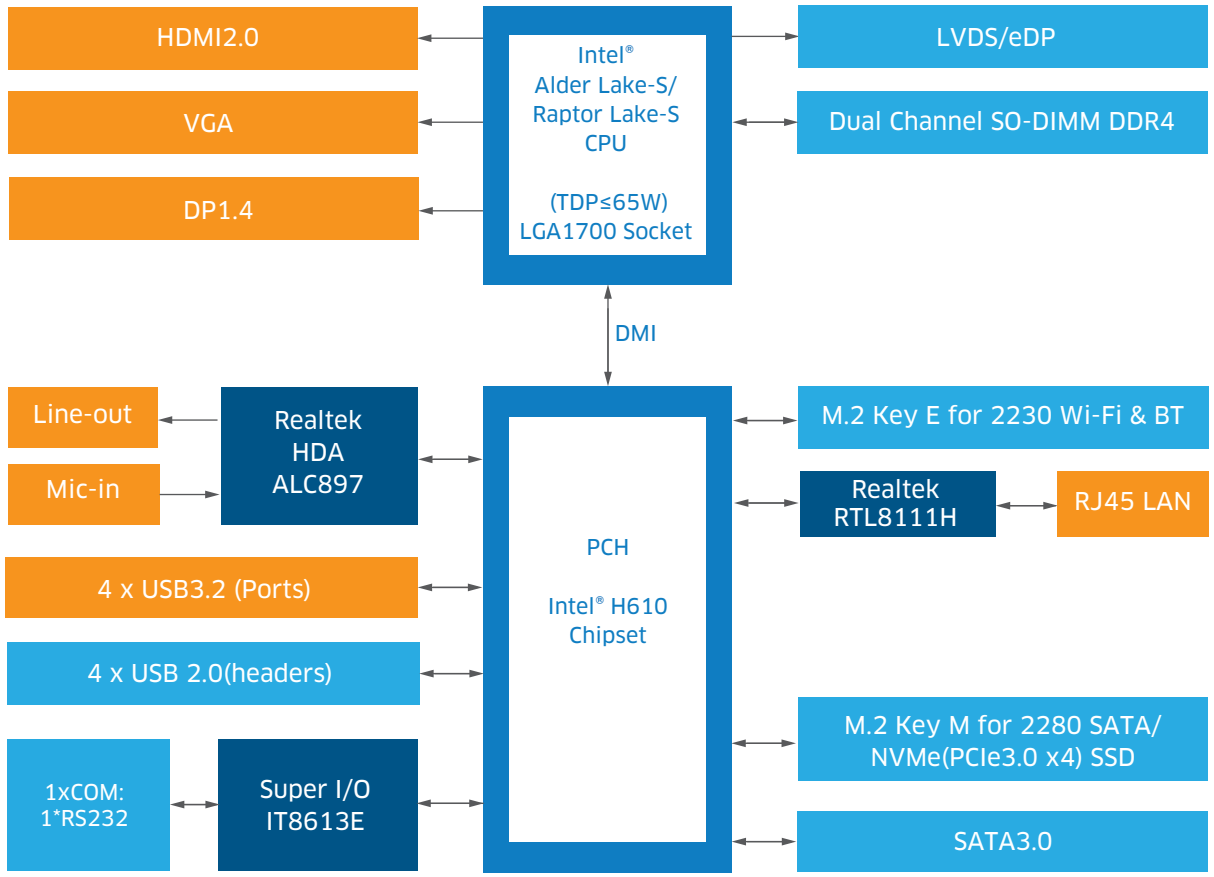


Technical Specifications

Processor	CPU	12th/13th/14th Gen Intel® Desktop Series Processor
	Code Name	Alder Lake-S/Raptor Lake-S Desktop Series
	TDP	≤65W
	Socket	LGA1700
	Chipset	Intel® H610
	BIOS	AMI UEFI BIOS
Memory	Type	Dual Channel SO-DIMM DDR4
	Max.Capacity	64GB
Display	GPU	Integrated Intel® Graphics
	Interface	1 x HDMI+1xVGA+1xDP+1xLVDs/eDP, Maximum Trio Display
Ethernet	Controller	1 x Realtek RTL8111H, Data Rate Per Port: 1.0GbE
	Speed	10/100/1000 Mbps
	Interface	1 x RJ45
	Wake on LAN	Yes
Audio	Audio Codec	Realtek HD ALC897
	Interface	1 x Line-out, 1xMic-in, supports audio header and amplifier header
Hardware Monitoring		CPU system temperature, onboard voltage, watchdog, auto power on
Storage	M.2_N	1 x M.2 Key M for SATA/NVMe SSD (PCIe3.0 x4 signal)
	SATA	1 x SATA3.0
Expansion	M.2_E	1 x M.2 Key E for 2230 WiFi and Bluetooth, support PCIe/CNVi/USB2.0
Other I/O	JCOM	1 x COM RS232
	USB3.2	4 x USB3.2(ports)
	USB2.0	4 x USB2.0(headers)
Dimension	Size	170mm x 170mm
	Form Factor	Mini-ITX
Power	Standard Port	19V DC-in
	Peripheral Input	For Fan and SATA
	Operating Temp.	-20°C ~60°C
	Storage Temp.	-40°C ~80°C
Operating System		Win10/11 64 bit, Linux 64 bit

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

Block Diagram



Order Information

Model Name	Description
DTH610-AIO	DT Intel H610 ALD15V10 4USB3+LAN+2DDR4+VGA+DDI+LVDS+DP

***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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