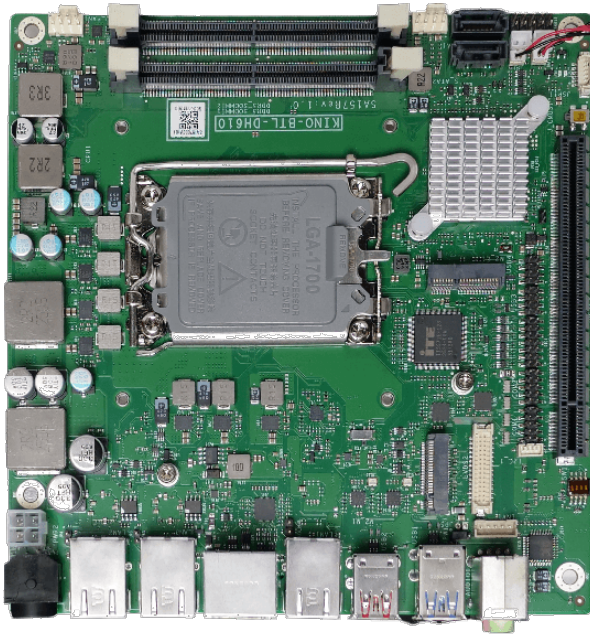


KINO-BTL-DH610

mini-ITX SBC supports 12th/13th/14th Gen Intel® Core™ processors (Alder Lake-S / Raptor Lake-S) and Intel® Core™ Processors (Series 2) (Bartlett Lake-S)



Features

- » mini-ITX SBC supports 12th/13th/14th Gen Intel® Core™ processors (Alder Lake-S / Raptor Lake-S) and Intel® Core™ Processors (Series 2) (Bartlett Lake-S)
- » 2 x 262-pin DDR5 5600 MHz SO-DIMM, dual-channel, supports up to 96GB
- » Triple independent display via LVDS, HDMI and DP
- » Support triple Intel® I226V 2.5GbE controller
- » Support PCIe Gen4 x16, M.2 M key and M.2 E key expansion

Specifications

Form Factor	
Form Factor	Mini-ITX SBC
System	
CPU	LGA1700 socket supports 12/13/14th generation Intel® Core™ i9/i7/i5/i3, Celeron®, Pentium® processor and Intel Core Processors (Series 2) (Bartlett Lake S) (up to 65W TDP CPU)
Memory	2 x 262-pin DDR5 5600 MHz SO-DIMM, dual-channel
Memory Max.	up to 96GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin)
	1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	170mm x 170mm
Net Weight	GW:900g / NW:450g
Storage	
Storage	2 x SATA : 6Gb/s
I/O Interface	
Display Output	1 x Display Port : 1.4 (up to 4K @60Hz)
	1 x HDMI™ : 2.0 (up to 4K @60Hz)
	1 x LVDS : up to 1920 x 1200
Ethernet	3 x LAN -
	LAN1: Intel® I219LM 1GbE controller
	LAN2: Intel® I226-V 2.5GbE controller
	LAN3: Intel® I226-V 2.5GbE controller
Audio	HD Audio : Realtek ALC888S HD codec
	2 x Audio Jack (Line-out, Mic-in) on rear IO
	1 x Analog audio (2x5 pin)
I/O Interface	1 x DIO : 12-bit digital I/O (2x7 pin)
	2 x External USB 3.2 Gen1x1 : Type-A, 5Gb/s
	2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s
	1 x I²C : 1x4 pin, p=1.25

	2 x Internal RS-232/422/485 : 2x5 pin, P=2.0
	4 x Internal USB 2.0 : 2x4 pin, P=2.0
Expansion	1 x PCIe x16 : with x16 Signal Gen4
Other Features	
TPM	1 x Intel TPM
	1 x Onboard TPM (Infineon SPI TPM 2.0 with SLB9670VQ2.0)
Power	
Power Consumption	12V@10.9A, 19V@6.8A, 24V@5.3A, 28V@4.6A,
	(Intel® Core 14900 with 16 GB 4800 MHz DDR5 memory, EuP mode disabled)
Power Supply	12-28V DC
Environment	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing
Card Slot Interface	
M.2	1 x M.2 M key (2280, PCIe Gen3 X 4)
	1 x M.2 E key (2230, PCIe Gen3 x1 &USB 2.0)

Ordering Information

KINO-BTL-DH610-R10	Mini-ITX SBC supports LGA1700 12/13/14th Intel® Core™ i9/i7/i5/i3, Celeron® and Pentium® processor & Intel Core Processors (Series 2)(Bartlett Lake S), DDR5, Triple independent displays, quad LAN, USB 3.2, SATA 6Gb/s and RoHS
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Packing List

1 x KINO-BTL-DH610 single board computer	1 x I/O Shielding
2 x SATA cable	1 x QIG