

# KINO-AH420

Mini-ITX SBC supports LGA1200 Intel® 10th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays, double 2.5GbE LAN, M.2, SATA 6Gb/s, HD Audio and RoHS



## Features

- » Mini-ITX SBC supports LGA1200 Intel® 10th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
- » Two 260-pin 2933 MHz Dual-Channel DDR4 SO-DIMMs Supported up to 64GB
- » Dual independent display via dual HDMI™
- » Support Dual Intel® I225-V/I226-V 2.5GbE controller
- » Support PCIe Gen3 x16, M.2 A key and M.2 B key expansion

## Specifications

Form Factor	
Form Factor	Mini-ITX
System	
CPU	LGA1200 socket supports 10th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
Chipset	Intel® H420/H420E
Memory	Two 260-pin 2933 MHz Dual-Channel DDR4 SO-DIMMs
Memory Max.	64GB
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: 1200g / NW: 700g
Storage	
Storage	1 x M.2(NGFF) : B key (3042/3052/2242/2280) (PCIe Gen 3 x2 /USB 2.0) 2 x SATA : 6Gb/s (No RAID)
I/O Interface	
Display Output	2 x HDMI™ : up to 4096 x 2160@30Hz
Ethernet	2 x LAN - LAN1: Intel® I225-V/I226-V 2.5GbE controller LAN2: Intel® I225-V/I226-V 2.5GbE controller
Audio	1 x HD Audio : Realtek ALC888S HD codec 2 x Audio Jack (Line-out, Mic-in) 1 x Front Audio (2x5 pin, P=2.54)
I/O Interface	1 x DIO : 8-bit digital I/O (2x5 pin) 2 x External RS-232 (DB-9) 2 x External USB 2.0 (Type-A) 4 x External USB 3.2 Gen1x1 (5Gb/s, Type-A) 1 x Internal RS-232 (2x5 pin, P=2.0) 1 x Internal RS-422/485 (1x4 pin, P=2.0) 2 x Internal USB 2.0 (2x4 pin, P=2.0)
Expansion	M.2(NGFF) - 1 x M.2 A key (2230) (PCIe Gen 3 x1/USB 2.0)

	1 x M.2 B key (3042/3052/2242/2280) (PCIe Gen 3 x2 /USB 2.0)
	1 x On-board SIM card socket (hinge type) for M.2 B key
	1 x PCIe x16 : PCIe Gen3 x16
<b>Power</b>	
Power Consumption	3.3V@0.81A, 5V@7.15A, 12V@4.28A, 5VSB@0.16A (Intel® Core™ i9-10900E CPU with two 32 GB 3200 MHz DDR4 memory, EuP mode enabled)
Power Supply	1 x ATX power input connector (20-pin) 1 x ATX power connector (2x4 pin) Support AT/ATX mode ErP/EuP Compliant
<b>Environment</b>	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~ 95%, non-condensing

## Ordering Information

KINO-AH420-R10	Mini-ITX SBC supports LGA1200 Intel® 10th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays, double 2.5GbE LAN, M.2, SATA 6Gb/s, HD Audio and RoHS
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## Packing List

1 x KINO-AH420 single board computer	1 x I/O Shielding
1 x SATA cable	1 x QIG