

# 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)<br>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)<br>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 -<br>LAN1: Intel® I225-V/I226-V 2.5GbE controller<br>LAN2: Intel® I225-V/I226-V 2.5GbE controller  |
| Audio                       | 1 x HD Audio : Realtek ALC888S HD codec<br>2 x Audio Jack (Line-out, Mic-in)<br>1 x Front Audio (2x5 pin, P=2.54)  |
| I/O Interface               | 1 x DIO : 8-bit digital I/O (2x5 pin)<br>2 x External RS-232 (DB-9)<br>2 x External USB 2.0 (Type-A)<br>4 x External USB 3.2 Gen1x1 (5Gb/s, Type-A)<br>1 x Internal RS-232 (2x5 pin, P=2.0)<br>1 x Internal RS-422/485 (1x4 pin, P=2.0)<br>2 x Internal USB 2.0 (2x4 pin, P=2.0) |
| Expansion                   | M.2(NGFF) -<br>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<br>(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)<br>1 x ATX power connector (2x4 pin)<br>Support AT/ATX mode<br>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 |
|----------------|---|

## Packing List

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