

# KINO-AQ870

Mini-ITX SBC with LGA1150 socket supports 4th Gen Intel® Core™ i7/i5/i3 processor



## Features

- » LGA1150 socket supports 4th Gen Intel® Core™ i7/i5/i3 processor
- » DDR3 1066/1333/1600 MHz dual-channel SDRAM
- » 3D micro-architecture enhancements for DX11.1, OCL 1.2 and OGL3.2
- » Rich media acceleration for hardware decode and encode acceleration
- » Intel® GbE LAN with Intel® AMT 9.0 support
- » High speed I/O interface for USB 3.0, SATA 6Gb/s and mSATA
- » IEI jumper-less function

## Specifications

|                       |   |
|-----------------------|---|
| CPU Cooler            |   |
| CPU Cooler            | CF-1150SA-R10   |
|                       | CF-1150SB-R11   |
|                       | CF-1150SC-R20   |
|                       | CF-1150SE-R10   |
| Display               |   |
| Display               | DVI-D integrated in the CPU   |
|                       | VGA integrated in Intel® Q87  |
|                       | DisplayPort integrated in the CPU (pin header for changing to HDMI™, LVDS, VGA) |
| Environment           |   |
| Humidity              | 5% ~ 95%, non-condensing  |
| Operating Temperature | -20°C ~ 60°C  |
| Expansion Slots       |   |
| Expansion Slots       | 1 x PCIe x4   |
|                       | 1 x PCIe Mini card slot (supports mSATA, SATA 3Gb/s signal only)                |
| I/O Interface         |   |
| Audio                 | Realtek ALC662 HD Audio codec (line-out, mic-in)                                |
| Digital I/O           | 8-bit digital I/O (2x5 pin)   |
| Ethernet              | LAN1: Intel® I211 PCIe controller   |
|                       | LAN2: Intel® I217LM with Intel® AMT 9.0 support                                 |
| I/O Interface         |   |
| I/O Interface         | 3 x Internal RS-232   |
|                       | 2 x USB 3.0   |
|                       | 2 x USB 2.0   |
|                       | 2 x RS-232  |
|                       | 1 x Internal RS-422/485   |
|                       | 4 x Internal USB 2.0  |
|                       | 2 x Internal USB 3.0  |
| Power                 |   |
| Power consumption     | 3.3V@1.11A, 5V@3.01A, 12V@0.12A, Vcore@6.32A, 5VSB@0.15A                        |
|                       | (Intel® 2.60GHz CPU with two 1600 MHz 2 GB DDR3 memory)                         |
| System                |   |

|                |  |
|----------------|--|
| Chipset        | Intel® Q87   |
| CPU            | Intel® Core™ i7/i5/i3 processor  |
| CPU Socket     | LGA1150  |
| Memory Max.    | Two 240-pin 1066/1333/1600 MHz dual-channel DDR3 SDRAM unbuffered DIMM supported (system max. 16 GB) |
| Storage        | 4 x SATA 6Gb/s (RAID 0/1/5/10)   |
| Watchdog Timer |  |
| Watchdog Timer | Software programmable supports 1~255 sec. system reset   |

## Ordering Information

|                |  |
|----------------|--|
| KINO-AQ870-R10 | Mini-ITX SBC with Intel Haswell CPU,DVI-D /VGA / DP,Dual Intel PCIe GbE,USB 3.0,SATA 6Gb/s,HD Audio and RoHS |
|----------------|--|

## Packing List

|                            |                   |
|----------------------------|-------------------|
| 1 x KINO-AQ870 motherboard | 1 x I/O shielding |
| 1 x Mini jumper pack       | 4 x SATA cable    |
| 1 x QIG                    |                   |