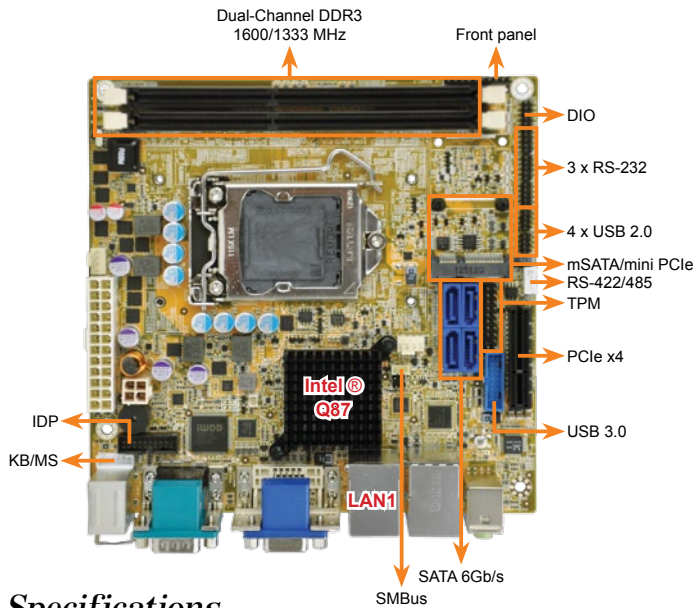


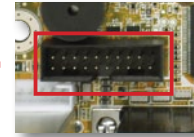
KINO-AQ870

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

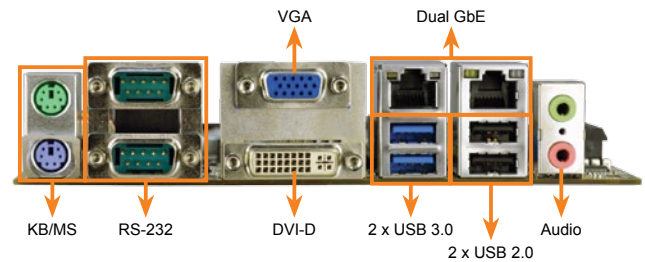
New



Flexible Display Function through IEI Display port connector



4 IDP Module Selection
DP-HDMI-R10
DP-VGSA-R10
DP-DVI-R10
DP-LVDS-R10



Specifications

- ◆ CPU
LGA1150 socket supports Intel® Haswell processor
- ◆ PCH
Intel® Q87
- ◆ Memory
Two 240-pin 1066/1333/1600 MHz dual-channel DDR3 SDRAM Unbuffered DIMM supported (system max. 16GB)
- ◆ BIOS
UEFI BIOS
- ◆ Ethernet
Intel® I211 PCIe controller
Intel® I217LM with Intel® AMT supported
- ◆ Graphic Engine
Support for DX11.1 and OpenGL3.2
Full MPEG2, VC1, AVC Decode*
- ◆ Display Output
DVI-D Integrated in the CPU
VGA Integrated in the Intel® Q87
DisplayPort integrated in the CPU (pin header for changing to HDMI, LVDS, VGA)
- ◆ Super I/O
Fintek F81866
- ◆ EC
ITE 8519
- ◆ Audio
Realtek ALC662 HD Audio codec
- ◆ I/O Interface

5 x RS-232	4 x USB 3.0 (2 x Rear I/O, 2 x pin header)
1 x RS-422/485	6 x USB 2.0 (2 x Rear I/O, 4 x pin header)
1 x 6-pin wafer for PS/2 KB/MS	1 x 6-pin connector for PS2 KB/MS (Rear I/O)
4 x SATA 6Gb/s with raid support	
- ◆ Front Panel
1 x Front Panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- ◆ LAN LED
2 x 2 PIN for LAN1 LED, LAN2 LED
- ◆ SM bus
1 x 4-pin wafer
- ◆ TPM
2 x 10-pin pinheader
- ◆ Expansion
1 x PCIe x4
1 x Mini PCIe card slot (colay mSATA)
- ◆ Watchdog Timer
Software programmable support 1~255 sec. system reset
- ◆ Digital I/O
8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Fan Connector
1 x 4-pin CPU fan connector
1 x 4-pin System fan connector
- ◆ Power Supply
ATX Power Supply
- ◆ Power Consumption
3.3V@1.11A, 5V@3.01A, 12V@0.12A, Vcore@6.32A, 5VSB@0.15A (Intel® 2.60GHz CPU with two 1600MHz 2GB DDR3 memory)
- ◆ Operating Temperature
-20°C ~ 60°C
- ◆ Operating Humidity
5% ~ 95%, non-condensing
- ◆ Dimension
170mm x 170mm
- ◆ Weight
GW: 900g/NW: 450g



Features

1. LGA1150 Intel® Haswell processor supported
2. DDR3 1066/1333/1600 MHz dual channel SDRAM
3. 3D micro-architecture enhancements supports for DX11.1, OCL 1.2 and OGL3.2
4. Rich media acceleration for hardware decode and encode acceleration
5. Intel® GbE Lan with Intel® AMT 9.0 supported
6. High speed I/O interface for USB 3.0, SATA 6Gb/s and mSATA supported
7. IEI Jumper-less function

Packing List

1 x KINO-AQ870 Motherboard	
1 x I/O shielding (P/N: 45014-0008C0-00-RS)	
4 x SATA cable (P/N: 32801-000703-200-RS)	1 x Utility CD
1 x Mini Jumper Pack (P=2.0)	1 x QIG

Ordering Information

Part No.	Description
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
32000-070301-RS	Dual USB cable
32200-000049-RS	RS232 cable, 200mm
32200-074800-RS	RS-422/485 cable, 200mm
CF-1150SA-RS	Special cooler kit for LGA1150, High-performance compatible, 95W
CF-1150SB-RS	Special cooler kit for LGA1150, High-performance compatible, 65W
CF-1150SC-RS	Special cooler kit for LGA1150, 1U chassis compatible, 65W
CF-1150SD-RS	Special cooler kit for LGA1150, 1U chassis compatible, 35W
DP-LVDS-R10	DisplayPort to 24 bit dual channel LVDS converter board (For iEi IDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (For iEi IDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (For iEi IDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (For iEi IDP connector)
TPM-IN01-R11	20-Pin Infineon TPM module, software management tool, firmware V3.17

1. Industrial Computing Solutions
2. Video Capture Solutions
3. Embedded Computing Solutions
4. Automation Control
5. ORing Network Communication
6. Power Supply/ Peripherals
7. Panel Solutions Introduction