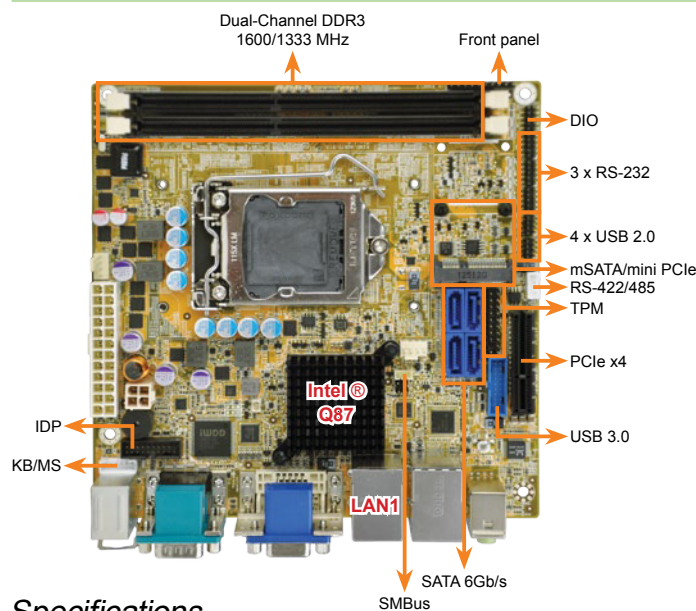
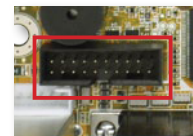


KINO-AQ870

Mini-ITX SBC with 4th Gen Intel® Core™ i7/i5/i3 Processor, DVI-D / VGA / DP, Dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS



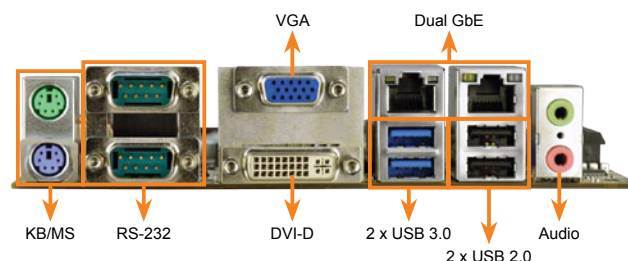
Flexible Display Function through IEI Display port connector



New

4 IDP Module Selection

DP-HDMI-R10
DP-VGSA-R10
DP-DVI-R10
DP-LVDS-R10



Specifications

- ◆ CPU
LGA1150 socket supports 4th Gen Intel® Core™ i7/i5/i3 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
 - 1 x RS-422/485
 - 1 x 6-pin wafer for PS/2 KB/MS
 - 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
- ◆ 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 socket supports 4th Gen Intel® Core™ i7/i5/i3 processor
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 4th Gen Intel® Core™ i7/i5/i3 processor, 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