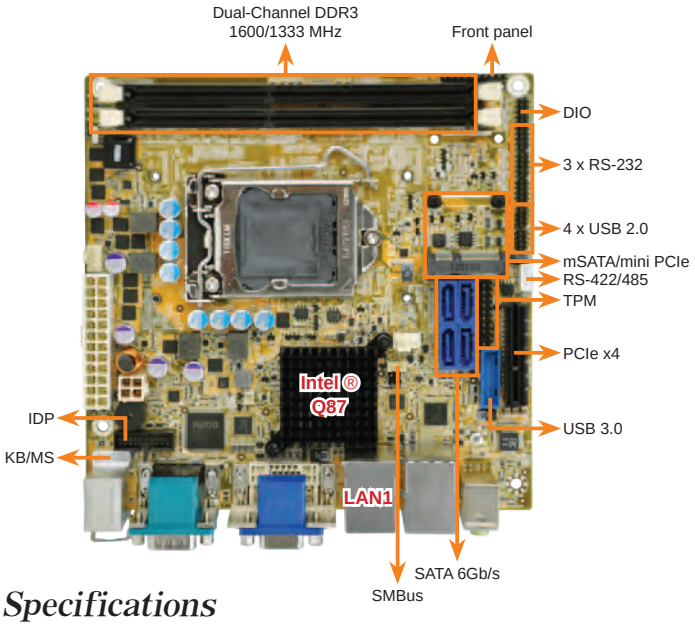
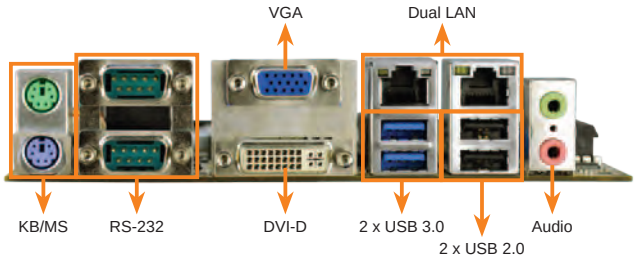
KINO-AQ870

Mini-ITX SBC with LGA1150 socket supports 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

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
  LAN1: Intel® I211 PCIe controller
  LAN2: Intel® I217LM with Intel® AMT 9.0 support
- 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 pinheder
- Expansion
  1 x PCIex4 — 1 x Mini PCIe card slot (supports mSATA, SATA 3Gb/s signal only)
- 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
- Storage Temperature
  -30°C ~ 70°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: 32000-062800-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 LGA1150 socket supports 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
32205-003800-300-RS	RS-422/485 cable, 200mm
CF-1150SA-RS	Special cooler kit for LGA1150, High-performance compatible, 95W
CF-1150SB-R11	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