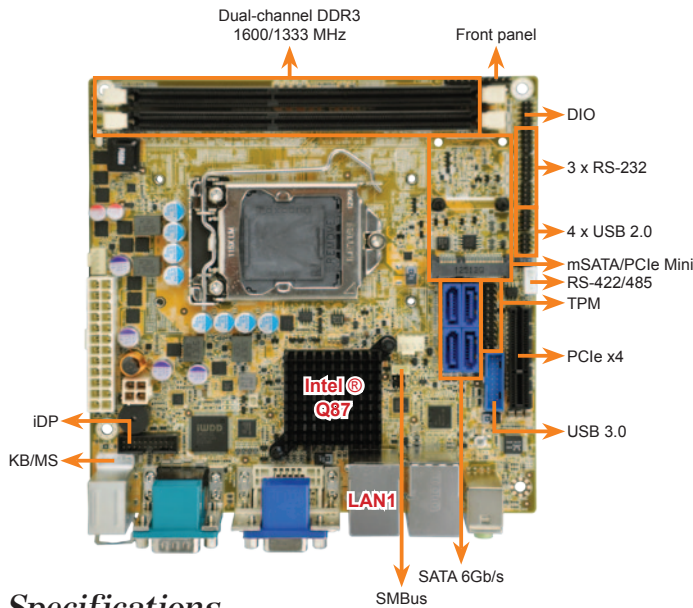


KINO-AQ870

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



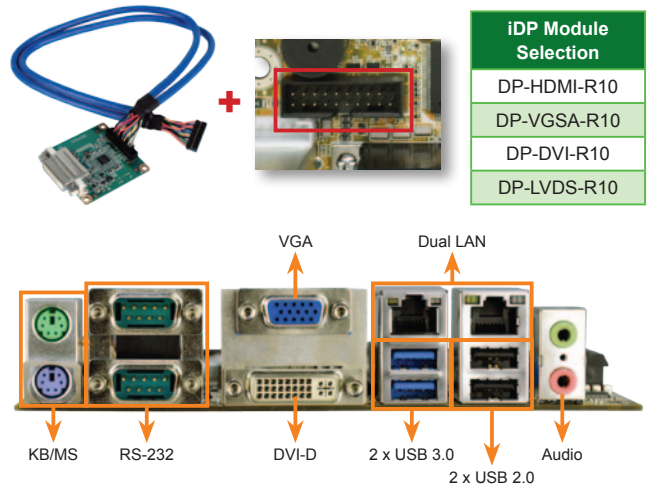
Specifications

- ◆ 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. 16 GB)
- ◆ BIOS
UEFI BIOS
- ◆ Ethernet
LAN1: Intel® I211 PCIe controller
LAN2: Intel® I217LM with Intel® AMT 9.0 support
- ◆ Graphics Engine
Support for DX11.1 and OpenGL3.2
Full MPEG2, VC1, AVC Decode
- ◆ Display Output
DVI-D integrated in the CPU
VGA integrated in Intel® Q87
DisplayPort integrated in the CPU (pin header for changing to HDMI, LVDS, VGA)
- ◆ Audio
Realtek ALC662 HD Audio codec (line-out, mic-in)
- ◆ External I/O Interface

1 x KB/MS	2 x USB 2.0
2 x RS-232	2 x USB 3.0
- ◆ Internal I/O Interface

1 x KB/MS (1x6 pin)	3 x RS-232 (2x5 pin, P=2.00)
1 x RS-422/485 (1x4 pin, P=2.00)	4 x SATA 6Gb/s (RAID 0/1/5/10)
2 x USB 3.0 (2x10 pin, P=2.00)	4 x USB 2.0 (2x4 pin, P=2.00)
- ◆ Front Panel
1 x Front panel (1x10 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ LAN LED
2 x LAN LED (1x2 pin)
- ◆ SMBus
1 x SMBus (1x4 pin)
- ◆ TPM
1 x TPM connector (2x10 pin)
- ◆ Expansion
1 x PCIe x4 1 x PCIe Mini card slot (supports mSATA, SATA 3Gb/s signal only)
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O
8-bit digital I/O (2x5 pin)
- ◆ Fan Connector
1 x CPU smart fan (1x4 pin)
1 x System smart fan (1x4 pin)
- ◆ 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 1600 MHz 2 GB DDR3 memory)
- ◆ Operating Temperature
-20°C ~ 60°C
- ◆ Storage Temperature
-30°C ~ 70°C
- ◆ Operating Humidity
5% ~ 95%, non-condensing
- ◆ Dimensions
170mm x 170mm
- ◆ Weight
GW: 900g/NW: 450g

Flexible Display Function through IEI Display Port Connector



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

Packing List

1 x KINO-AQ870 motherboard	1 x Mini jumper pack (P=2.0)
1 x I/O shielding	1 x QIG
4 x SATA cable	1 x Utility CD

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	RS-232 cable, 200mm
32205-003800-300-RS	RS-422/485 cable, 200mm
CF-1150SA-R10	Special cooler kit for LGA1150, high-performance compatible, 95W
CF-1150SB-R11	Special cooler kit for LGA1150, high-performance compatible, 65W
CF-1150SC-R20	Special cooler kit for LGA1150, 1U chassis compatible, 65W
CF-1150SE-R10	Special cooler kit for LGA1150, 1U chassis compatible, 35W
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS 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

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[MI958F-16C](#) [S2600WFT](#) [S2600STB](#) [BBS2600BPS](#) [BLKNUC7I3DNHNC1978015](#) [DEV-17745](#) [BEAGLEBOARD POCKET](#) [MICROSOM](#)
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[GCS22.8.100.4.2.I](#) [GLS11.2.053.2.2.E](#) [A20-OLINUXINO-LIME-E16GS16M](#) [A20-OLINUXINO-LIME-S16M](#) [A20-OLINUXINO-LIME2-](#)
[E16GS16M](#) [A20-OLINUXINO-MICRO-E16GS16M](#) [A20-OLINUXINO-MICRO-S16M](#) [BANANA PI BPI-W2](#) [T2-OLINUXINO-LIME2-](#)
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