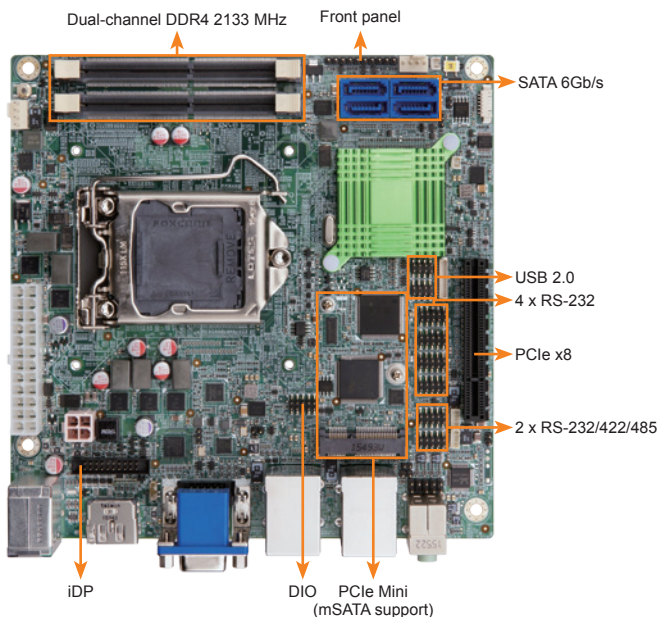


KINO-AQ170

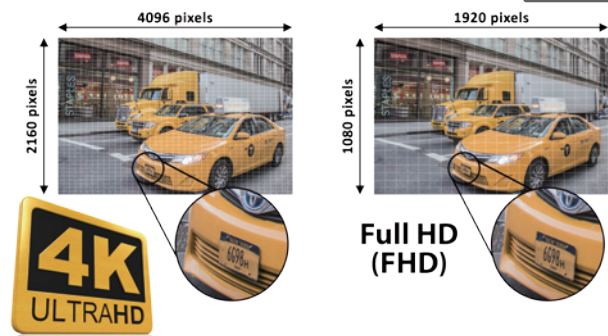
Mini-ITX SBC supports LGA 1151 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® Q170, HDMI 2.0/HDMI+DP/VGA, Dual Intel® GbE, SATA 6Gb/s, USB 3.0, PCIe Mini, HD Audio and RoHS



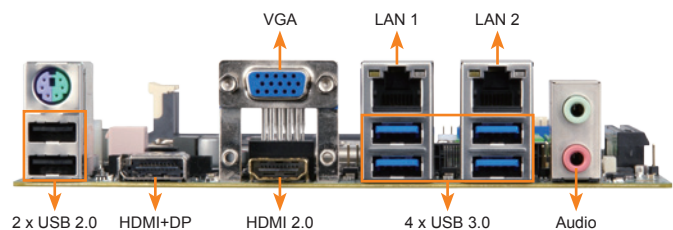
Specifications

- ◆ CPU
LGA 1151 socket supports 6th generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® processor
- ◆ System Chipset
Intel® Q170
- ◆ BIOS
AMI BIOS
- ◆ Memory
Two 260-pin 2133 MHz dual-channel DDR4 SDRAM SO-DIMM supported (system max. 64 GB)
- ◆ Graphics
Intel® HD Graphics Gen 9 support for DX11/12, OCL 2.x, OGL 4.3/4.4, ES 2.0 Decode/Encode for HEVC, VP8, VP9 2, VDENC
- ◆ Display Output
Triple independent displays
1 x HDMI 2.0 by MCDP2800-BB DP to HDMI converter (up to 4096x2160@60Hz)
1 x HDMI/DP (up to 3840x2160@60Hz)
1 x VGA by CH7517 DP to VGA converter (up to 1920x1200)
1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)
- ◆ Ethernet
LAN1: Intel® I219LM with (Intel® AMT 11.0 support)
LAN2: Intel® I211 PCIe controller with NCSI support
- ◆ External I/O Interfaces
2 x USB 2.0
4 x USB 3.0
- ◆ Internal I/O Interfaces
2 x RS-232/422/485 (2x5 pin, P=2.0)
4 x RS-232 (2x5 pin, P=2.0)
4 x SATA 6Gb/s (RAID 0/1/5/10 support)
4 x USB 2.0 (2x4 pin, P=2.0)
- ◆ Audio
Realtek ALC662 HD Audio codec
2 x Audio jacks (line-out, mic-in) on rear IO
1 x Front audio (2x5-pin)
- ◆ Front Panel
1 x Front panel connector (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)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ Expansion
1 x Full-size PCIe Mini slot (support mSATA)
1 x PCIe x8 slot
- ◆ Chassis Intrusion: 1 x Chassis intrusion (1x2 pin)
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset by super I/O
- ◆ Power Supply
AT/ATX power
- ◆ Fan Connector
1 x CPU smart fan (1x4 pin)
1 x System smart fan (1x4 pin)
- ◆ Power Consumption
3.3V@1.62A, 5V@3.54A, 12V@8.17A, 5VSB@3.6A
(Intel® Core™ i7 6700K 4.0GHz CPU with 16 GB (two 8 GB) 2133 MHz DDR4 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW: 900g/NW:450g

HDMI 2.0 Ultra HD (4,096x2,160@60Hz)



	HDMI 1.4	HDMI 2.0
Bandwidth	10.2Gbps	18Gbps
4K@30hz	Yes	Yes
4K@60hz	No	Yes
Up to 32 Audio Channels	No	Yes



Features

- Mini ITX form factor with 6th generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® processor support DDR4-2133 memory
- Support HDMI 2.0 (4096x2160@60Hz)
- Dual Intel® GbE support Intel® AMT 11.0
- Triple display via HDMI 2.0/HDMI/DP 1.2/VGA/iDP
- High speed I/O interface for USB 3.0, SATA 6Gb/s and mSATA support
- Support IEI jumpless

Packing List

1 x KINO-AQ170 single board computer	1 x One Key Recovery CD
1 x I/O shielding	1 x QIG
2 x SATA cable	1 x Utility CD

Ordering Information

Part No.	Description
KINO-AQ170-R10	Mini-ITX SBC supports 6th generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® processor, HDMI 2.0/HDMI/DP/VGA, SATA 6Gb/s, dual Intel® GbE, USB 3.0, PCIe Mini, HD Audio and RoHS
32001-008600-200-RS	Dual USB cable
32200-000049-RS	RS-232 cable, 200mm
CF1156A-RS-R11	High-performance LGA1155/1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA1155/1156 kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA1155/1156 kit, 1U chassis compatible, 65W
CF-1156E-R11	High-performance LGA1155/1156 cooler kit, 95W
DP-DP-R10	DisplayPort to DP converter board (for IEI connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI connector)
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI connector)