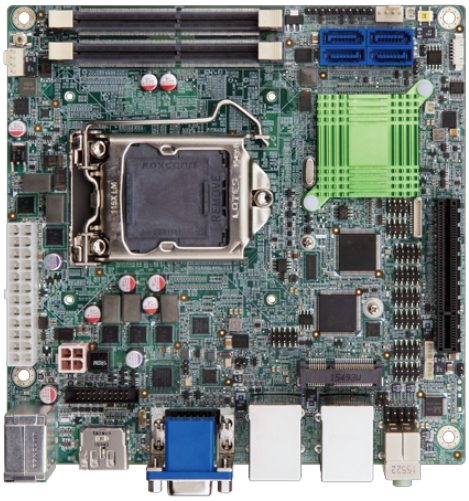
Embedded Computer > Single Board Computer > Industrial Motherboard

# KINO-AQ170

Mini-ITX SBC supports LGA 1151 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® Q170



## Features

» Mini ITX form factor with LGA 1151 Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor and DDR4 2133MHz memory support

» 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

## Specifications

| | |
|---|---|
| System | |
| CPU | LGA 1151 socket supports Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor |
| Chipset | Intel® Q170 |
| Memory | Two 260-pin 2133 MHz dual-channel DDR4 SDRAM SO-DIMM |
| Memory Max. | 64GB |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 170 X 170 |
| Net Weight | 450g |
| Storage | |
| Storage | 4 x SATA :6Gb/s(RAID 0/1/5/10 support) |
| I/O Interface | |
| Display Output | 1 x VGA :up to 1920x1200 |
| | 1 x HDMI :2.0 (up to 4096x2160@60Hz) |
| | 1 x Display Port :HDMI/DP (up to 3840x2160@60Hz) |
| | 1 x iDP :interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz) |
| Ethernet | 2 x LAN LAN1: Intel® I219LM with (Intel® AMT 11.0 support) |
| | LAN2: Intel® I211 PCIe controller with NCSI support |
| Audio | Description: Realtek ALC662 HD Audio codec |
| | 1 x Line out :on rear IO |
| | 1 x Mic :on rear IO |
| | 1 x Front Audio :2x5 pin |
| I/O Interface | 4 x Internal RS-232 :2x5 pin, p=2.0 |
| | 2 x Internal RS-232/422/485 :2x5 pin, p=2.0 |
| | 2 x External USB 2.0 |
| | 4 x External USB 3.2 Gen1x1 |
| | 4 x Internal USB 2.0 :2x4 pin, p=2.0 |
| Expansion | 1 x PCIe x8 |
| | 1 x PCIe mini Card Slot :Full-size slot (support mSATA) |
| Power | |
| Power Consumption | 3.3V@0.62A, 5V@3.3A, 12V@7.51A, 5VSB@0.23A |
| | (Intel® Core™ i7 6700K 4.0GHz CPU with 16 GB (two 8 GB) 2133 MHz DDR4 memory) |

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| | |
|---|---|
| Power Supply | Support AT/ATX mode |
| Environment | |
| Operating Temperature | -20°C ~ 60°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC compliant |

## Ordering Information

| | |
|---|---|
| KINO-AQ170-R10 | Mini-ITX Motherboard supports 14nm LGA1151 Intel® Skylake CPU Intel® Q170,HDMI2.0/DP/VGA, SATA, Dual Intel®GbE, USB3.0,PCIE mini, HD audio and RoHS |

## Packing List

| | |
|---|---|
| 1 x KINO-AQ170 single board computer | 2 x SATA cable |
| 1 x I/O shielding | 1 x QIG |