

mITX-Q170A (MDQ17BI)

Mini-ITX with Intel® Q170 Chipset, support 7th/6th Generation Intel® Core™ Processors, Dual channel DDR4 memory, PCIe, 2 x COM, 10 x USB, 3 x SATA 6Gb/s



Features

- Mini-ITX form factor
- Support 7th/6th Generation Intel® Core™ Processors
- Intel® Q170 Express Chipset
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 3 x SATA 6Gb/s Ports
- HDMI, Display Port, VGA, eDP Ports for Multiple Display
- 2 x COM Ports (RS-232/422/485 & RI/5V/12V)

Specifications

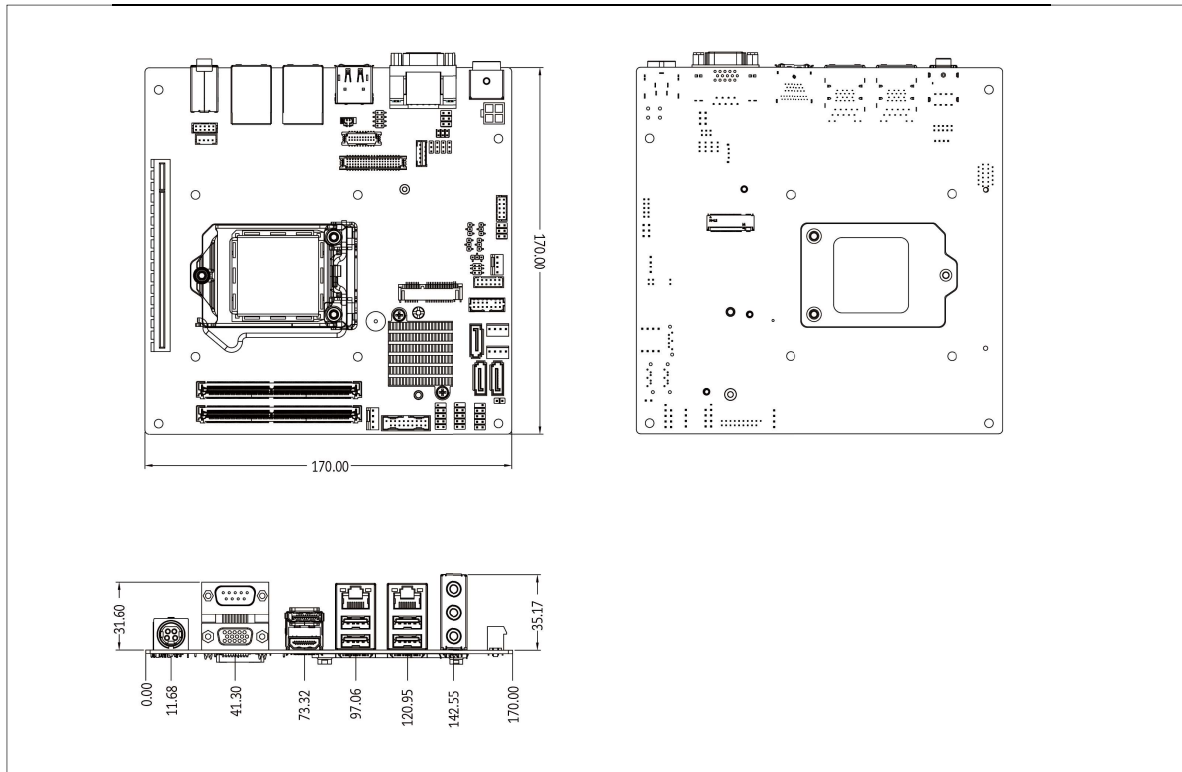
Form Factor	Mini-ITX 170W x 170D (mm)
CPU	Support for 7th/6th Generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® processors in the LGA1151 package TDP under 65W L3 cache varies with CPU
Socket	1 x LGA 1151
Chipset	Intel® Q170 Express Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Support Dual channel DDR4 2400/2133 MHz memory modules
Ethernet	2 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)
Video	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4 port, supporting a maximum resolution of 4096x2160 @30Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz 1 x eDP port, supporting a maximum resolution of 1920x1080 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1080 @60Hz * eDP port is alternative with LVDS port, only one can be worked at the same time (3 independent display outputs)
Audio	Realtek® Audio Codec
Storage	3 x SATA 6Gb/s Ports (incl. 1 x SATA supports SATA DOM)
Raid	Intel® RAID 0/1/5/10
Expansion Slots	1 x PCIe x16 (Gen3 x16) 1 x Full-size Mini-PCIe/msATA 1 x 2280/2242 M.2 M-Key (PCIex4, SATA 6Gb/s)

Internal I/O	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8-bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V/+24VDC)
TPM	1 x TPM header
OS Compatibility	Windows 10 (x64) Windows 7 (x64)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -20°C to 70°C Non-operating humidity: 0%-95% (non-condensing)

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Dimension

Unit: mm



Packing Content

- Carton size: 465 x 351 x 217 (mm)
- Packing Capacity: 10pcs
- Single Box size: 221 x 178 x 65 (mm)
- Including:
 - IO Shield x 1 (P/N: 12AIO-MDH114-00R)
 - Screw Flat Head M2*2.5 x 1 (P/N: 12KS2-110202-01R)
 - Screw Stand Off x 1 (P/N: 12KSF-F10303-20R)
 - SATA Power cable x 1 (P/N: 25CRI-200B02-K1R)
 - Screw I Head M2x3L x 1 (P/N: 25KSG-130032-S0R)

Ordering Information

- Motherboard: 9MDQ17BIMR-SI (Box packing)

OPTIONAL KIT

- CPU Cooler : 25ST0-039520-Y0R
- CPU Cooler Backplate : 12KRH-0A1155-30R
- TPM 2.0 module: 9CTM000NR-00

2023/03/29

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