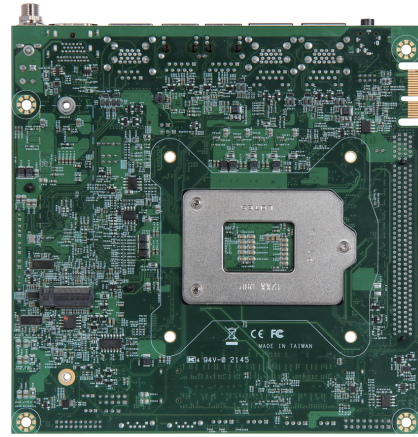
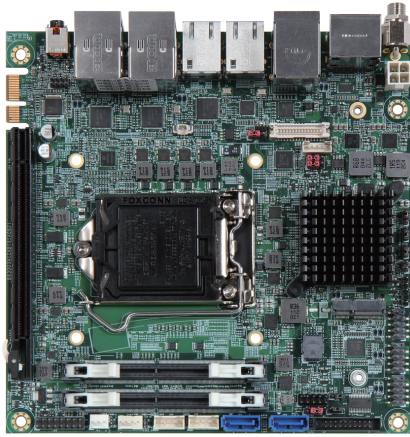




MEDB-51A0-Q470E-MGS

Intel® 10th Gen. Core™ i Mini-ITX
Medical Board

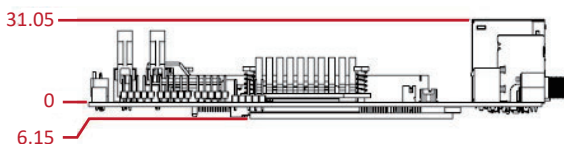
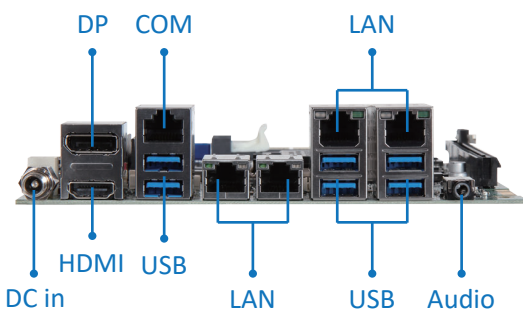


10th Gen. Intel® Core™ Processors Mini-ITX with DP, HDMI, LVDS, 4x GbE LAN, 6x USB 3.2 Gen1, 2x SATA III, PCIe x16, M.2 key E, M.2 key M, PCIe x1 Gold finger

FEATURES

- Intel® 10th Gen Core™ Processors
- Two Non-ECC DDR4 SO-DIMM 2400/2666/2933 MT/s up to 64GB
- Four Gigabit Ethernet LAN, 6x USB 3.2 Gen1x1 on rear I/O, 3x USB 2.0 on board
- Supports PCIe x16 expansion slot(Gen3), M.2 key E(2230) , M.2 key M (2280) for NVMe, SATA SSD, PCIe x1 gold finger and 2x SATA III
- Supports triple display of HDMI/DP/LVDS

REAR I/O



ORDERING GUIDE

ABC-3054

(R).MEDB-51A0-Q470E-MGS.

Mini-ITX. Intel® Comet Lake-S Core™ i Processors. Q470E. LGA1200. w/ 2x DDR4 SO-DIMM(Non-ECC)/ 4x GbE/6x USB/ M.2/ HDMI/ LVDS/ DP/ SATA III/ Audio/ TPM 2.0

GENERAL

Processor	Intel® 10th Gen Core™ Processors CPU in LGA1200 package, up to 65W
Chipset	Intel® Q470E
BIOS	AMI uEFI BIOS
Memory	Two Non-ECC DDR4 SO-DIMM 2400/2666/2933 MT/s up to 64GB
Storage	- Support two 7-pin SATA III port - 1 x M.2 M key 2280 (PCIex4,SATA)
Watchdog Timer	Programmable watchdog timer, time out period from 1 sec to 255 secs
Hardware Monitoring	System monitor(Voltage,Fan Speed and Temperature)
Expansion Interface	- 1 x PCIe x16 Gen3 slot - 1 x M.2 E key 2230 (PCIex1, USB) - 1 x M.2 M key 2280 (PCIex4,SATA) - 1 x PCIe x1 Gold Finger (include 2x PCIe x1 signal)

I/O INTERFACE

Embedded Controller	IT5121
Audio	- Realtek® ALC897 HD codec - Combo audio jack
Ethernet	- 3x RJ45 connectors on rear I/O with Intel i210AT - 1x RJ45 connectors on rear I/O with Intel i219LM
Serial port	1x RS-232/422/485 (RJ45 type) on rear I/O
USB	- 6x USB3.2 Gen 1x1 (5Gb/s) on rear I/O - 3x USB 2.0 on board pin header
GPIO	8-bit configurable controlled by embedded controller

DISPLAY

Graphic Controller	- Intel® UHD Graphics 630 supports DirectX 12, OpenGL 4.5 - Video decode HW acceleration support for H.264, H.265, MPEG2, VC-1/WMV9, JPEG, VP8, and VP9
Display Interface	- LVDS: Dual channel 2bit LVDS on board, resolution up to 1920 x1200 - DP port on rear I/O, resolution up to 4096x2160 - HDMI port on rear I/O, resolution up to 4096x2160

Mechanical& Environment

Dimensions	170mm(L) x 170mm(W)
Power Supply	12V DC input or ATX Power input
Environment	- Operating temperature: 0°C ~ 50°C - Storage Temperature: -20°C ~ 80°C - Relative Humidity: 5% ~ 95%, non condensing
MTBF	Over 100,000 hours at 40°C