

# MEC-5071

Intel<sup>4th</sup>-generation Core High-performance Fanless Embedded Computer



## Features

- Ultra-slim, multi-expansion, multi-form fanless complete PC ;
- High configuration, high reliability, flexible configuration of modules, fast model selection;
- Wide temperature all-solid capacitor design, multiple communication ports, national 3C certification passed;
- Independent micro-control system, a broad range of application markets ;

## Specifications

System	
Processor	Intel®Core™ I7-4712HQ, I5-4410E, I3-4110E, Celeron® 2000E processor
Chipset	Mobile Intel® QM87 Express chipset
Memory	Standard configuration: 1 x 2GB DDR3 SO-DIMM memory, supporting up to two SO-SIMM slots and 16GB memory capacity
Watchdog Timer	255 levels, programmable by second/minute, timeout interrupt or system reset.
Expansion Bus	2 x MiniPCI-E expansion slot (one of them is only SATA+USB) 1 x SIM card slot 2 x PCI or 1 x PCI, 1 x PCI-E expansion slot 4 x PCI or 2 x PCI, 2 x PCI-E expansion slot 4 x PCI(EPI) expansion slot
Storage	
Serial ATA	1 x M-SATA interface
IDE/CF	1 x CF card slot (front panel)
HDD	Standard configuration: 2 x 2.5-inch HDD bay, supporting up to two 2.5-inch HDD bay
I/O Interface	
USB	6 x USB2.0 port (two USB ports on the front panel)
Serial Port	6~10 x COM port (COM1~COM6 are RS-232/422/485 optional)
Parallel Port	1 x LPT port (optional)
PS/2	1 x KB/MS
GPIO	1x 8-channel digital I/O port (terminal connector)
Audio	1 group of AUDIO ports, supporting Line-in, Line -out
Others	1 x Display Port (maximum resolution 2560 X 1600)
Display	
Chipset	CPU integrated
Memory	N/A
Resolution	1 x VGA (maximum resolution 2048 X 1536) 1 x DVI-D (maximum resolution 1920 X 1200) 1 x HDMI (maximum resolution: 1920 X 1200) Built-in LVDS port
Display	VGA+ DVI-D+ HDMI+ LVDS

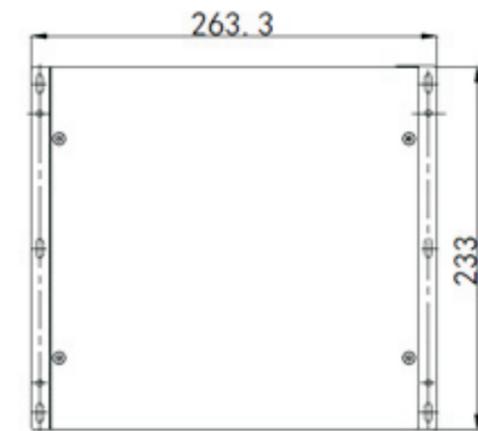
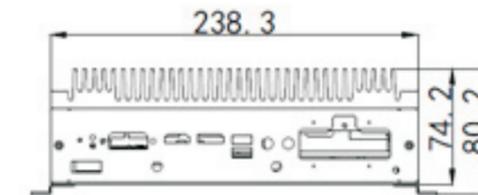
Ethernet	
Chipset	Intel WGI211AT/ Intel WGI217LM
Speed	10/100/1000Mbps
Connector	2 x 10/100/1000Mbps RJ45 LAN port; LAN1 supports Wake-On-LAN

Mechanical and Environmental	
Dimensions	Ultra-slim: 238.3mm × 74.2mm × 233mm Dual-expansion: 238.3mm × 120.88mm × 233mm Quad-expansion: 238.3mm × 161.66mm × 233mm
Operating Temperature	-20°C ~ 60°C; (wide-temperature CF card/SSD) -5°C ~ 50°C (monitoring-level HDD) 5% ~ 90% 40°C (non-condensing)
Storage Temperature	-40°C ~ 70°C; 5% ~ 90% 40°C (non-condensing)
Operating Humidity	5% ~ 90% (temperature : +40°C)

Power	
Power Supply	Supports 9~30V DC wide voltage input, or by 90W AC external adapter
Power Consumption	Input voltage/frequency: 220VAC/50Hz (with adapter); Input voltage/current: 9V-30VDC (no adapter, direct input to the PC) ; Power consumption of the PC: 22 W (standby status); Power consumption of the PC: 35 W (operating 3D)

Operating System	
Windows OS	WIN7/WIN8/ WINCE/WIN7E/LINUX(2.6 kernel)/Vxworks
Embedded OS	Linux

## Dimensions



MEC-5071-01/02

Unit: mm

## Ordering Information

Part Number	Model Number	Description
0010-078521	MEC-5071-01	Low power fanless embedded PC with QM87 chipset/I5-4410E 2.9G/2G memory/6 x COM port (RS232/485/422 optional)/1 x PS/2 port/ 1 x VGA/1 x DVI/1 x HDMI/1 x DisplayPort/2 x LAN port/1 group of Audio ports/6 x USB (2 x USB3.0)/8-channel GPIO /monitoring-level 500G HDD/supports M-SATA/supports 1 x CF card/supports MiniPCI-E/SIM card/DC12V~24V input/60W adapter
0010-078531	MEC-5071-02	Low power fanless embedded PC with QM87 chipset/I3-4110E 2.6G/2G memory/2 x COM port (RS232/485/422 optional)/1 x PS/2 port/ 1 x VGA/2 x LAN port/1 group of Audio ports/6 x USB (2 x USB3.0)/monitoring-level 500G HDD/supports M-SATA/supports 1 x CF card/ supports MiniPCI-E/SIM card/DC12V~24V input/60W adapter
0010-078541	MEC-5071-2P-01	Low power fanless embedded PC with QM87 chipset/ I5-4410E 2.9G/2G memory/10 x COM port (COM1~COM6, RS232/485/422 optional)/ 1 x PS/2 port/1 x VGA/1 x DVI/1 x HDMI/1 x DisplayPort/2 x LAN port/1 group of Audio ports/6 x USB (2 x USB3.0)/8-channel GPIO/monitoring -level 500G HDD/supports M-SATA/supports 1 x CF card/supports MiniPCI-E/SIM card/DC12V~24V input/90W adapter/2 x PCI expansion slot
0010-078551	MEC-5071-2P-02	Low power fanless embedded PC with QM87 chipset/ I3-4110E 2.6G/2G memory/10 x COM port (COM1~COM6, RS232/485/422 optional)/ 1 x PS/2 port /1 x VGA/1 x DVI/1 x HDMI/1 x DisplayPort/2 x LAN port/1 group of Audio ports/6 x USB(2 x USB3.0)/1 x LPT/ monitoring-level 500G HDD/supports M-SATA/supports 1 x CF card/supports MiniPCI-E/SIM card/DC12V~24V input/90W adapter/ 2 x PCI expansion slot
0010-078561	MEC-5071-4P-01	Low power fanless embedded PC with QM87 chipset/I5-4410E 2.9G/2G memory/6 x COM port (RS232/485/422 optional)/1 x PS/ 2 port/1 x VGA/2 x LAN port/1 group of Audio ports/4 x USB(2 x USB3.0)/ 8-channel GPIO/ monitoring-level 500G HDD/ supports M-SATA/supports 1 x CF card/supports MiniPCI-E/SIM card/DC12V~24V input/90W adapter/4 x PCI expansion slot
0010-078571	MEC-5071-4P-02	Low power fanless embedded PC with QM87 chipset/I7-4712HQ 2.3G/2G memory/6 x COM port (RS232/485/422 optional)/1 x PS/ 2 port/1 x VGA/2 x LAN port/1 group of Audio ports/4 x USB(2 x USB3.0)/ 8-channel GPIO/ monitoring-level 500G HDD/ supports M-SATA/supports 1 x CF card/ supports MiniPCI-E/SIM card/DC12V~24V input/90W adapter/4 x EPI expansion slot