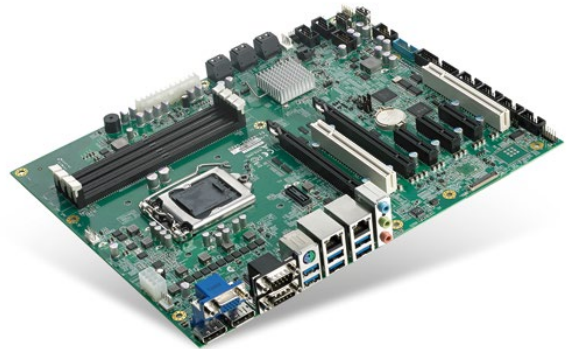


# IMB-M43

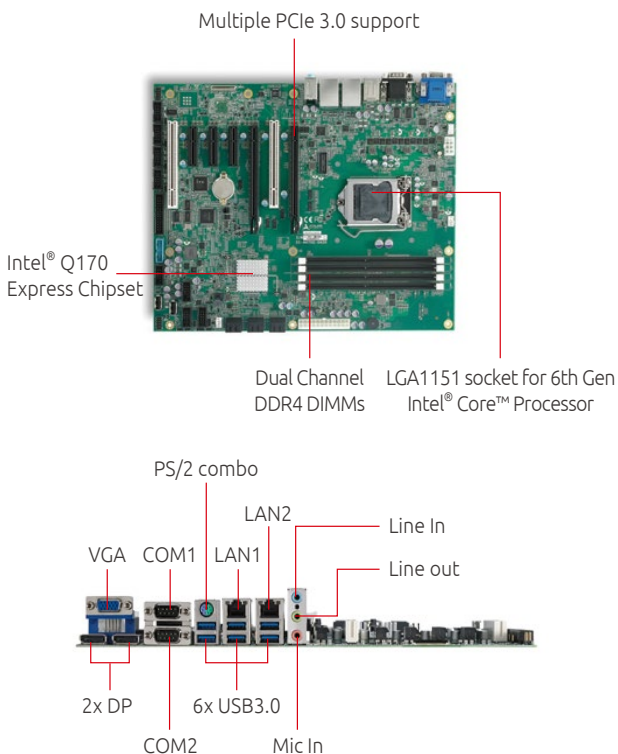
## Industrial ATX Motherboard with 6th Gen Intel® Core™ i7/i5/i3 Processor

### Features

- 6th Gen Intel® Core™ i7/i5/i3 processors and Q170 chipset
- Dual-channel DDR4 2133 MHz memory up to 64 GB
- Intel® PCIe 3.0 slot bifurcation supports up to 5x PCIe 3.0 expansion slots
- Rugged I/O design to enhance I/O port compatibility and reliability
- Unique power design to ensure stable USB power of 5V ±5%
- IEC 61000-4-2~6 (Performance Criterion A), CE/FCC class B certified



### Product Illustration



### Ordering Information

- **IMB-M43**  
ATX Intel® Core™ i7/i5/i3 industrial motherboard  
Note: CPU, Memory module and Cooler kit are not included

### Packing Lists

- IMB-M43
- IMB-M43 I/O shield

### Optional Accessories

- **USB 3.0 Cable**  
2-port USB 3.0 port cable with bracket
- **USB 2.0 Cable**  
4-port USB 2.0 port cable with bracket
- **LPT Cable**  
1-port LPT port cable with bracket
- **COM Cable**  
2-port COM port cable with bracket
- **2U CPU Cooler**  
LGA1156 2U Thermal Module

# Specifications

<b>Processor System</b>	
<b>CPU</b>	Intel® Core™ i7-6700, 3.4 GHz, 8M Cache, 14nm, 65W TDP, LGA1151 (4C/8T)
	Intel® Core™ i7-6700TE, 2.4 GHz 8M Cache, 14nm, 35W TDP, LGA1151 (4C/8T)
	Intel® Core™ i5-6500, 3.2 GHz, 6M Cache, 14nm, 65W TDP, LGA1151 (4C/4T)
	Intel® Core™ i5-6500TE, 2.3 GHz, 6M Cache, 14nm, 35W TDP, LGA1151 (4C/4T)
	Intel® Core™ i3-6100, 3.7 GHz, 3M Cache, 14nm, 51W TDP, LGA1151 (2C/4T)
	Intel® Core™ i3-6100TE, 2.7 GHz, 4M Cache, 14nm, 35W TDP, LGA1151 (2C/4T)
	Intel® Pentium® G4400, 3.3GHz, 3M Cache, 14nm, 54W TDP, LGA1151 (2C/2T)
	Intel® Pentium® G4400TE, 2.4GHz, 3M Cache, 14nm, 35W TDP, LGA1151 (2C/2T)
	Intel® Celeron® G3900, 2.8GHz, 2M Cache, 14nm, 51W TDP, LGA1151 (2C/2T)
Intel® Celeron® G3900TE, 2.3GHz, 2M Cache, 14nm, 35W TDP, LGA1151 (2C/2T)	
<b>Chipset</b>	Intel® Q170 Express Chipset
<b>Memory</b>	Four 288 PIN DDR4 Sockets (vertical type) Dual channel DDR4 2133 MHz, up to 64 GB
<b>BIOS</b>	AMI® UEFI BIOS, 128 Mb SPI Flash Memory
<b>Watchdog Timer</b>	software programmable and can be generate system reset
<b>Hardware Monitor</b>	CPU voltage
	+3.3 V voltage
	+5 V voltage
	+12 V voltage
	CPU temperature
	System temperature
<b>Operating Systems</b>	CPU fan speed
	System fan speed
	Microsoft® Windows® 7 32/64-bit
	Microsoft® Windows® 8.1 64-bit
	Microsoft® Windows® 10 64-bit
Ubuntu 15.10 32/64-bit	
<b>I/O Interfaces</b>	
<b>Serial ATA</b>	6x SATA 6.0 Gb/s connectors
	Software RAID support 0/1/5/10
<b>USB</b>	6x USB 3.0 connectors (rear)
	2x USB 3.0 pin headers
	4x USB 2.0 pin headers
	2x USB 2.0 (vertical type A connector)
<b>Serial Ports</b>	2x RS-232/422/485 with auto flow control connector (rear)
	4x RS-232 pin headers

<b>Expansion slots</b>	<Signal> If PEG3 is occupied, PEG1 is PCIe8 Gen3, PEG2 is PCIe4 Gen3, and PEG3 is PCIe4 Gen3 If PEG3 is not occupied and PEG2 is occupied, PEG1 is PCIe8 Gen3, PEG2 is PCIe8 Gen3, and PEG3 is no signal If PEG3 is not occupied and PEG2 is not occupied, PEG1 is PCIe16 Gen3, PEG2 and PEG3 is no signal
	PCI1: PCIe x4 Gen3, PCIe2: PCIe x4 Gen3, PCIe1: PCI 2.2, PCI2: PCI 2.2
	<Physical Slot> PEG1: PCIe16 slot, PCI1: PCI slot, PEG2: PCIe16 slot, PEG3: PCIe4 slot, PCIe1: PCIe4 slot, PCIe2: PCIe4 slot, PCI2: PCI slot
<b>Parallel Port</b>	1x LPT pin header
<b>PS2 Combo Port</b>	1x PS/2 keyboard & Mouse connector (rear)
<b>DIO</b>	1x 10-pin/2.54mm GPIO pin header: 4 in and 4 out, one ground pin and one power pin (5V/12V/no power, jumper selected)
<b>Audio</b>	
<b>Audio Codec</b>	Realtek® ALC262-VC2-GR
<b>Interface</b>	1x Mic-in, 1x Line-out and 1x Line-in connector (rear)
<b>Graphics</b>	
<b>Graphics Engine</b>	Integrated Intel® HD Graphics series (based on CPU)
<b>VGA</b>	1x VGA connector (rear), resolution up to 1920 x 1200 @ 60 Hz
<b>DisplayPort 1.2</b>	2x DP connector (rear), resolution up to 4096 x 2304 @ 60 Hz
<b>Ethernet</b>	
<b>Controller</b>	LAN1: Intel® I219-LM via RJ45 connector (rear) LAN2: Intel® I211-AT via RJ45 connector (rear)
<b>Intel® AMT</b>	LAN1 Support
<b>Wake On LAN</b>	LAN1 and LAN2 support
<b>Mechanical and Environmental</b>	
<b>Form Factor</b>	ATX
<b>Dimension</b>	305 mm x 244 mm (W x L)
<b>Operating Temperature</b>	0 °C to 60 °C
<b>Storage Temperature</b>	-20 °C to 80 °C
<b>Relative Humidity</b>	0 % to 90 %, non-condensing
<b>Certification</b>	CE & FCC Class B

\*Extending operating temperature is optional and requires use of an industrial solid-state drive storage device or CFast card..

\*\*Other Linux Distribution support by request



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