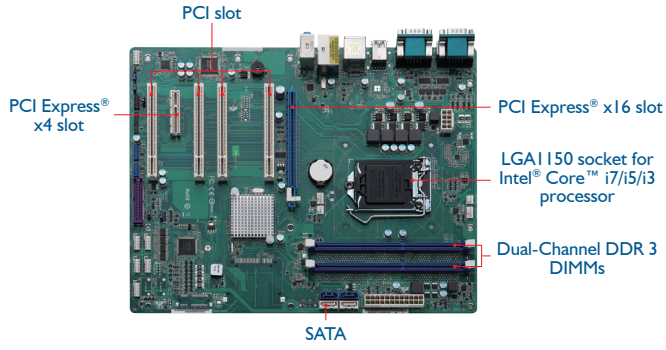
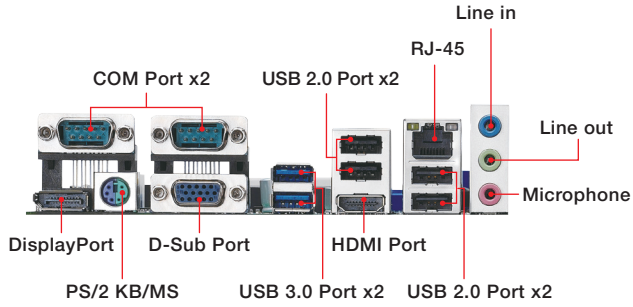
IMB-M42H

Industrial ATX Motherboard with 4th Gen Intel® Core™ i7/i5/i3/Pentium® Processor





Features

- 4th Gen Intel® Core™ i7/i5/i3/Pentium®/Celeron®
- Dual-Channel DDR3 1600 MHz, 2x 240-pin DIMM sockets, up to 16 GB
- 1x PCIe Express Gen2 x16, 1x PCI Express Gen2 x4, 4x PCI slots
- 1x VGA, 1x HDMI, 1x DisplayPort (Dual independent display)

Specifications

Processor System

CPU	Intel® Core™ i7-4790S, 3.2 GHz, 8MB Cache, 22nm, 65W TDP, LGA1150(4C/8T)
	Intel® Core™ i7-4770S, 3.1 GHz, 8MB Cache, 22nm, 65W TDP, LGA1150(4C/8T)
	Intel® Core™ i5-4590S, 3.0 GHz, 6MB Cache, 22nm, 65W TDP, LGA1150(4C/4T)
	Intel® Core™ i5-4570S, 2.9 GHz, 6MB Cache, 22nm, 65W TDP, LGA1150(4C/4T)
	Intel® Core™ i3-4360, 3.7 GHz, 4MB Cache, 22nm, 54W TDP, LGA1150(2C/4T)
	Intel® Core™ i3-4330, 3.5 GHz, 4MB Cache, 22nm, 54W TDP, LGA1150(2C/4T)
	Intel® Core™ G3420, 3.2 GHz, 3MB Cache, 22nm, 53W TDP, LGA1150(2C/2T)
	Intel® Core™ G1820, 2.7 GHz, 2MB Cache, 22nm, 53W TDP, LGA1150(2C/2T)
Chipset	Intel® H81 Chipset
Memory	Dual-Channel DDR3 1600 MHz, 2x 240-pin DIMM sockets, up to 16GB
	Support non-ECC unbuffered DIMMs
BIOS	AMI 32 Mb SPI BIOS
Watchdog Timer	1-255 sec or 1-255 min software programmable, can generate system reset
Hardware Monitor	CPU/System temperature, fan speed and onboard DC voltages
Operating Systems	Microsoft® Windows® 7 32/64-bit
	Microsoft® Windows® 8.1 32/64-bit
	Microsoft® Windows® XP 32-bit (limited support)
	Ubuntu 13.10 (limited support)
	Fedora™ 19 (limited support)
	Red Hat Enterprise Linux 7.0 (limited support)

I/O Interfaces

Serial ATA	2x Serial ATA ports with 6 Gb/s data transfer rate
	2x Serial ATA ports with 3 Gb/s data transfer rate
USB	8x USB 2.0 ports (4x faceplate, 4x onboard pin headers)
	2x USB 3.0 ports (faceplate)
Serial Port	2x RS-232/422/485 ports (2x faceplate, COM1 support RS-485 auto flow control)
	4x RS-232 ports (4x onboard pin headers)
Expansion Slots	1x PCI Express x16 Gen2
	1x PCI Express x4 Gen2
	4x PCI
KB/MS	1x PS/2 combo port (faceplate)
Parallel Port	1x parallel port (onboard pin headers)
DIO	GPIO 4 bit input / 4 bit output

Audio

Audio Codec	Realtek ALC662 Audio Codec
Interface	Line-in, Line-out, Mic-in (faceplate)

Display

Graphics	Intel® HD Graphics integrated in processor (Dual independent display)
VGA	1x VGA port (faceplate), resolution up to 2048 x 1536
HDMI	1x HDMI 1.4a (faceplate), resolution up to 1920 x 1200
Display Port	1x Display Port 1.2 (faceplate), resolution up to 2560 x 1600

Ethernet

Controller	1x Intel I217V
Interface	PCI Express x1 Bus
Wake On LAN	Yes

Mechanical and Environmental

Form Factor	ATX
Dimensions	305 mm x 244 mm (W x L)
Operating Temp.	0°C to 60°C
Storage Temp.	-20°C to 80°C
Certifications	CE, FCC Class A
Relative Humidity	10 % to 90 %, non-condensed

Ordering Information

Model Number	Description/Configuration
IMB-M42H	ATX Intel® Core™ i7/i5/i3/Pentium® Industrial Motherboard

Optional Accessories

1x 4-port USB2.0 port cable with bracket
1x 2-port COM port cable with bracket

Packing Lists

1x IMB-M42H
1x IMB-M42H I/O Shield

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