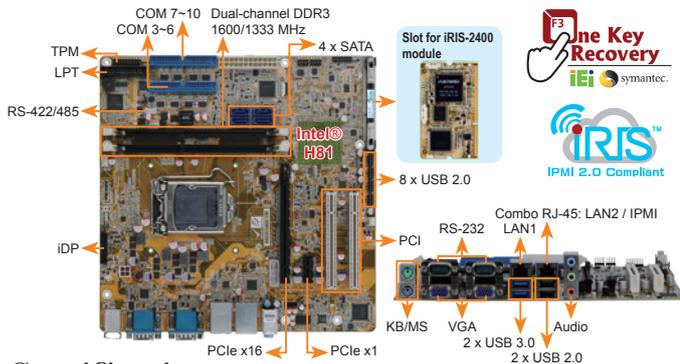# IMB-H810-i2-R11

microATX motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3, Pentium®, Celeron® CPU per Intel® H81, DDR3, VGA, dual GbE, LPT, COM, SATA 6Gb/s, iRIS-2400

Specifications

- ◆ CPU: LGA1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- ◆ Chipset: Intel® H81
- ◆ Memory: Two 240-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 16 GB
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet
  LAN1: Intel® I217LM with Intel® AMT9.0 support
  LAN2: Intel® I210-AT PCIe controller with NCSI support
- ◆ Graphics Engine
  Intel® HD Graphics Gen 7.5 supports DX11.1 and OpenCL 1.2, OpenGL 3.2
  Full MPEG2, VC1, AVC Decode
- ◆ Display Output
  Dual independent display
  2 x VGA (up to 1920x1200@60Hz)
  1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)
- ◆ Audio
  Realtek ALC662 HD Audio codec supports 5.1-channel
  3 x Audio jacks (line-out, line-in, mic-in) on rear IO
  1 x Front audio (2x5 pin)
- ◆ iRIS Remote Management Module
  1 x iRIS-2400 slot
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ LAN LED: 2 x LAN LED (1x2 pin)

- ◆ External I/O Interface
  1 x KB/MS   2 x USB 2.0
  2 x RS-232   2 x USB 3.0
- ◆ Internal I/O Interface
  1 x LPT (2x13 pin, P=2.54)
  1 x RS-422/485 (1x4 pin, P=2.0)
  2 x SATA 3Gb/s8 x USB 2.0 (2x4 pin, P=2.54)
  2 x SATA 6Gb/s
  8 x RS-232 (2x20 pin, P=2.54)
- ◆ Front Panel: 1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ Expansion
  1 x PCIe x16 slot (Gen 3)
  1 x PCIe x1 slot
  2 x PCI slot
- ◆ Watchdog Timer: Software programmable, supportS 1~255 sec system reset
- ◆ Fan Connector
  1 x CPU smart fan (1x4 pin)
  1 x System smart fan (1x3 pin)
- ◆ Power Supply: ATX power supply
- ◆ Power Consumption
  3.3V@0.64A, 5V@4.20A, 12V@0.14A, Vcore_12V@3.88A, 5VSB@0.20A
  (Intel® Core™ i7-4770K 3.90 GHz CPU with 8 GB (two 4 GB) 1333 MHz DDR3 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244mm x 244mm
- ◆ Weight: GW: 1200g / NW: 680g
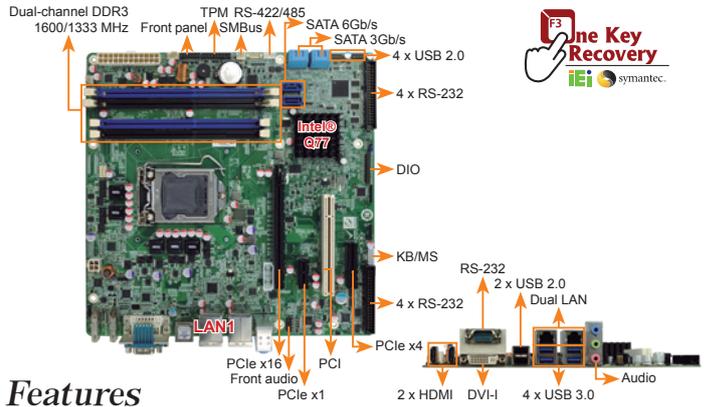- ◆ CE/FCC compliant

Packing List

1 x IMB-H810-i2 single board computer	2 x SATA cable
1 x I/O shielding	1 x QIG

Ordering Information

Part No.	Description
IMB-H810-i2-R11	microATX motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3/Pentium® and Celeron® CPU per Intel® H81, DDR3, VGA, Dual Intel® PCIe GbE, USB 2.0, PCI, COM, SATA 6Gb/s, LPT, HD Audio, iRIS-2400 and RoHS
IMB-H810-ECO-R11	LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU per Intel® H81, DDR3, VGA, Dual PCIe GbE, USB 2.0, COM, LPT, SATA 6Gb/s, HD Audio, ECO packing, RoHS (10 pce/pack)
iRIS-2400-R10	IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface
19800-000049-RS	LPT flat cable, 240mm, P=2.54
19800-000075-RS	PS/2 KB/MS cable with bracket, 220mm, P=2.0
19800-003100-100-RS	Dual port USB cable with bracket, 30mm, P=2.54
19800-010500-200-RS	USB 3.0 cable with bracket, 450mm
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32205-001203-200-RS	RS-232 cable, 40-pin to four DB-9, 400mm, P=2.54
32205-003801-100-RS	RS-232/422/485, RS-422/485 cable, 500mm
CF-115XA-R10	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-115XE-R10	High performance LGA1155/LGA1156 cooler kit, 95W
DP-DP-R10	DisplayPort to DisplayPort converter board (for IEI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
TPM-IN01-R20	20-pin Infineon TPM module, software management tool, firmware v3.17

IMB-Q770

microATX motherboard supports 22nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® Q77, DDR3, triple independent display via Dual HDMI/DVI-I, dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, ten serial ports, HD Audio and RoHS

Features

- ● LGA1155 Intel® Core™ i7/i5/i3 processor supported
- ● Dual-channel DDR3 1600/1333 MHz supports up to 32 GB
- ● Intel® PCIe GbE with Intel® AMT 8.0 supported
- ● Supports 3 displays with 2 displays in combination of HDMI, DVI and VGA
- ● Supports PCI Express generation 3.0 at 8GT/s I/O bandwidth
- ● USB 3.0 and SATA 6Gb/s supported
- ● Supports multiple scalable serial ports
- ● IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU: LGA1155 socket supports Intel® Core™ i7/i5/i3 quad/dual core processor
- ◆ Chipset: Intel® Q77
- ◆ Memory
  Four 240-pin 1600/1333 MHz dual-channel DDR3 SDRAM unbuffered DIMMs support up to 32GB
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet
  LAN1: Intel® 82583V PCIe controller
  LAN2: Intel® 82579 PHY with Intel® AMT 8.0 support
- ◆ Graphics Engine
  Intel® HD Graphics Gen 7 supports DX11 and OpenCL 1.1
  Full MPEG2, VC1, AVC Decode
- ◆ Display Output
  Triple independent display
  2 x HDMI (up to 1920x1200@60Hz)
  1 x DVI-I (up to 1920x1200@60Hz)
- ◆ Audio
  Realtek ALC662 HD Audio codec supports 5.1-channel
  3 x Audio jacks (line-out, line-in, mic-in) on rear IO
  1 x Front audio (2x5 pin)
- ◆ Front Panel: 1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ Infrared Interface: 1 x Infrared Interface (1x5 pin)

- ◆ External I/O Interface
  1 x RS-232   2 x USB 2.0   4 x USB 3.0
- ◆ Internal I/O Interface
  1 x KB/MS (1x6 pin)
  1 x RS-422/485 (1x4 pin, P=2.0)
  2 x SATA 3Gb/s (RAID 0/1/5/10 supported)
  2 x SATA 6Gb/s (RAID 0/1/5/10 supported)
  4 x USB 2.0 (2x4 pin, P=2.54)
  8 x RS-232 (2x20 pin, p=2.54)
- ◆ Expansion
  1 x PCIe x16 slot   1 x PCIe x4 slot
  1 x PCIe x1 slot   1 x PCI slot
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: 24-bit digital I/O (2x13 pin)
- ◆ Fan Connector
  1 x CPU smart fan (1x4 pin)
  2 x System smart fan (1x3 pin)
- ◆ Power Supply: ATX power supply
- ◆ Power Consumption
  3.3V@0.31A, 5V@2.91A, 12V@0.51A, 12V@2.12A, -12V@0.10A
  (Intel® Core™ i3 3200 3.2GHz CPU with four 1333 MHz 1 GB DDR3 memory)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity
  5% ~ 95%, non-condensing
- ◆ Dimensions: 244 mm x 244 mm
- ◆ Weight: GW: 1200g / NW: 700g
- ◆ CE/FCC compliant

Packing List

1 x IMB-Q770 single board computer	4 x SATA cable
1 x DVI-I to VGA adapter	1 x Mini jumper pack
1 x I/O shielding	1 x QIG

Ordering Information

Part No.	Description
IMB-Q770-R10	microATX motherboard supports 22nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® Q77, DDR3, three independent displays via dual HDMI/DVI-I, dual Intel® PCIe GbE, USB 3.0, ten serial ports, SATA 6Gb/s, HD Audio and RoHS
19800-000075-RS	PS/2 KB/MS cable with bracket, 220mm, P=2.0
19800-003100-300-RS	Dual port USB cable with bracket, 30mm, P=2.54
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32205-001203-200-RS	RS-232 cable, 40-pin to four DB-9, 400mm, P=2.54
32205-003800-300-RS	422/485 cable, 200mm, P=2.0
CF-115XA-R10	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-R20	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-R20	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-115XE-R10	High performance LGA1155/LGA1156 cooler kit, 95W
TPM-IN01-R20	20-pin Infineon TPM module, software management tool, firmware v3.17