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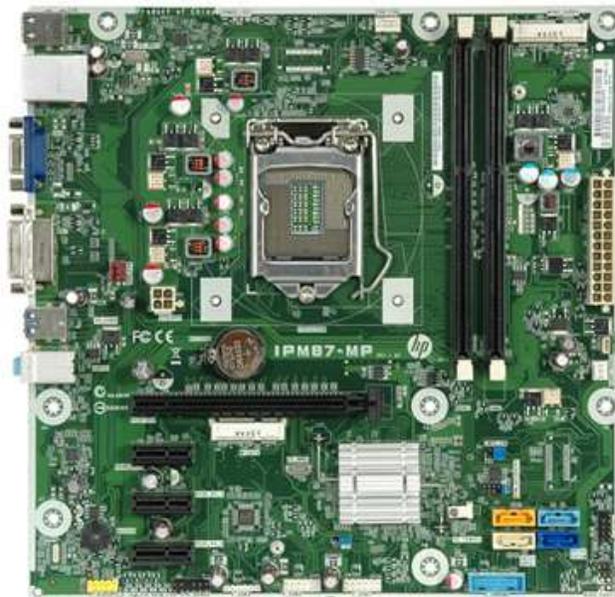
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HP and Compaq Desktop PCs - Motherboard Specifications, (Memphis-S)

Figure 1: The Memphis-S motherboard



✕ Motherboard description

- Manufacturer name: Pegatron
- HP/Compaq name: Memphis-S
- SSID: 2AF7

✕ Form Factor

- uATX
- Dimensions: 24.4 cm (9.6 in) x 24.4 cm (9.6 in)



× Chipset



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- Intel H87

× Processor upgrade information

- TDP: Up to 84 W
- Socket type: LGA 1150 (Socket-H2)
- Motherboard supports the following processor upgrades:

Processor	TDP	Integrated Graphics
Intel Celeron G1820 (Haswell) 2.7 GHz Dual Core	54 W	Intel HD Graphics (GT1)
Intel Pentium G1840 (Haswell) 2.8 GHz Dual Core	53 W	Intel HD Graphics (GT1)
Intel Pentium G3220 (Haswell) 3.0 GHz Dual Core	54 W	Intel HD Graphics (GT1)
Intel Pentium G3240 (Haswell) 3.1 GHz Dual Core	53 W	Intel HD Graphics (GT1)
Intel Pentium G3250 (Haswell) 3.2 GHz Dual Core	53 W	Intel HD Graphics (GT1)
Intel Core i3-4130 (Haswell) 3.4 GHz Dual Core	54 W	Intel HD Graphics 4400 (GT2)
Intel Core i3-4150 (Haswell) 3.5 GHz Dual Core	54 W	Intel HD Graphics 4400 (GT2)
Intel Core i3-4160 (Haswell) 3.5 GHz Dual Core	54 W	Intel HD Graphics 4400 (GT2)
Intel Core i3-4330 (Haswell) 3.5 GHz Dual Core	54 W	Intel HD Graphics 4400 (GT2)
Intel Core i5-4430 (Haswell) 3.0 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4440 (Haswell) 3.1 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4460 (Haswell) 3.4 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4460S (Haswell) 3.1 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4570 (Haswell) 3.2 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4670 (Haswell) 3.4 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i7-4770 (Haswell) 3.4 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i7-4771 (Haswell) 3.5 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i7-4790 (Haswell) 3.6 GHz Quad Core	84 W	Intel HD Graphics 4600 (GT2)
Intel Core i7-4790S (Haswell) 3.2 GHz Quad Core	65 W	Intel HD Graphics 4600 (GT2)

× Memory upgrade information

- Dual channel memory architecture
- Two 240-pin DDR3 DIMM sockets
- Supports the following:
 - PC3 10600 (DDR3-1333)
 - PC3 12800 (DDR3-1600)
- Supports 1 GB, 2 GB, 4 GB and 8 GB DIMMs
- Supports up to 4 GB on 32-bit systems

NOTE: 32-bit systems cannot address a full 4.0 GB of memory.

- Supports up to 16 GB (unbuffered) on 64-bit computers

NOTE: Maximum memory shown reflects the capability of the hardware and can be limited further in the operating system.



× Video



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× Intel HD Integrated Graphics

- This motherboard supports processors with the following Integrated Graphics:
 - Intel HD Graphics 4400 (GT2)
 - Intel HD Graphics 4600 (GT2)
- Integrated Graphics is combined with the installed processor.
- See the Processor upgrade information section of this document for detailed information.
- One PCI Express x16 slot (Gen 3.0)

NOTE: Integrated video is not available if a graphics card is installed.

× Audio

× Integrated IDT 92HD65C Audio

*Integrated audio is not available if a sound card is installed.

- Audio Codec: IDT 92HD65C
- 5.1 channel

× Network

× LAN: 1000BASE-T

- Technology: Realtek RTL8151GH-CG
- Data transfer speeds: up to 10/100/1000 Mb/s
- Transmission standards: 1000BASE-T Ethernet

× Expansion Slots

- One PCI Express x16 (Gen 3.0)
- Three PCI Express x1 (Gen 2.0)
- One PCI Express half-length mini card

× I/O Ports and internal connectors

× Back I/O ports

Figure 2: Back I/O ports





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- 2. USB 2.0: 2
- 3. LAN (Ethernet)
- 4. VGA
- 5. DVI-D
- 6. USB 3.0: 2
- 7. Audio: Line-in
- 8. Audio: Line-out
- 9. Audio: Microphone

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