

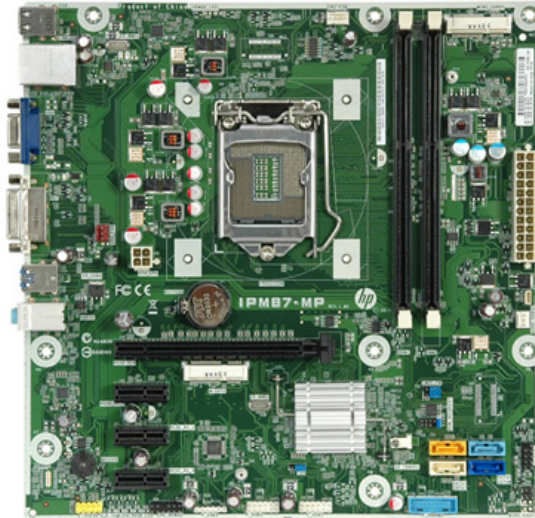


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# HP and Compaq Desktop PCs - Motherboard Specifications, (Memphis-S)

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

- Intel H87

Processor	TDP	Integrated Graphics
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## 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)

Processor	TDP	Integrated Graphics
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



### 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

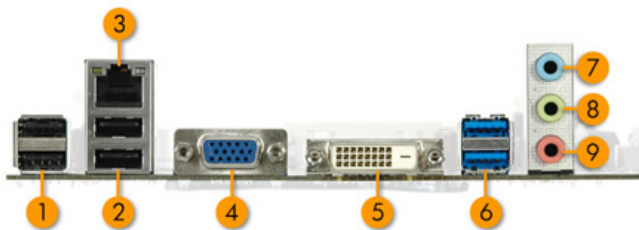
## I/O Ports and internal connectors



### Back I/O ports



Figure 2: Back I/O ports



1. **USB 2.0: 2**
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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