

I'm not a robot



To help us provide you with free impartial advice, we may earn a commission if you buy through links on our site. Learn more If youre looking to build a powerful but small media centre PC or compact workstation, the MSI H81M-P33 microATX LGA1150 motherboard certainly looks tempting, particularly at this low price. It has everything you need, although there are some design issues that compromise the board slightly. The first issue is around the back of the board, where the rear-facing ports are so tightly packed together, some of them become unusable if a device is plugged in adjacent. For example, the DVI port which youll probably use if you choose not to install a PCI-E graphics card is so close to the two USB3 ports, they both become unusable for all but the smallest of connectors. The same is true on the other side of these USB3 connectors: there are two more USB ports that, again, encroach on the USB ports if you plug in even a normal-sized USB connector. The problem is made worse again by a bootup bug that resulted in error 9C when we had USB devices connected in certain combinations: a USB disk and a USB keyboard and mouse plugged into various USB and USB3 ports meant our motherboard wouldnt POST and left us scratching our heads. Theres no relief mid-board, either: there arent any USB3 headers so youll be stuck with slow USB connectors even if your cases front panel has USB3 connectors. Theres a PCI-E slot that runs at x16 speeds for a graphics card. Even if you install a double-height card, the PCI-E x1 slot situated below it is not obstructed, so youll easily be able to fit a PCI-E wireless card or other expansion hardware, although its a bit of a squeeze. There are two RAM slots for up to 16GB of dual-channel DDR3 memory running at a maximum of 1600MHz, which slot is snugly next to the processor and heatsink mounts. There are two SATA3 ports for high-performance storage such as SSDs, and a further two SATA2 ports for drives that dont need the 6Gb/s transfer speeds offered by the newer specification. Performance from our benchmark hardware was as expected, with our Intel Core i5-4670K managing an overall score of 100. The UEFI BIOS isnt particularly complex to use, but if you decide to overclock the processor, youll be on your own because there are no automatic overclocking tools on this cheap board. Its hard to complain about the MSI H81M-P33 when you consider its very low price, but given the problems we had with USB connectors, there are better boards on the market for only slightly more. The Asus B85M-G is a better all-round motherboard. Manuals Ask the publishers to restore access to 500,000+ books. B85M-E33 V2 (MS-7846v2.0) m-ATX Motherboard Support Intel Haswell processors for LGA 1150 socketTop: LAN JackBottom: USB 2.0 portsLine-In/Line-Out/Midi-In/AUD 1 JTPM 1PCI_E1PCI_E2PCI_E3COM 1USB 2.0USB 1JBAT1 JCI1BAT1J1USB3.0 port sSYSFA N1HDMI portVGA portTop: mouse/Bottom: USB 2.0 port sKeyboard/JPWR 2CPUFA NJFP1JUSB 3.0SATA1_2SATA3 4DIMM 1DIMM 2SPI 1Motherboard SpecificationProcessor Support Support Intel Haswell processors for LGA 1150 socketBase Clock 100 MHz Chipset Intel B85 chipsetMemory Support Support 2 DDR3 DIMMs1066/1333/1600 MHz up to 32GB max Supports Dual-Channel modeLAN Supports LAN 10/100/1000 Fast Ethernet by Realtek RTL8111GAudio Chip integrated by Realtek ALC887 Flexible 8-channel audio with jack sensing Compliant with Azalia 1.0 SpecSATA 2 SATA 3Gb/s (SATA1-SATA2) ports by Intel B85 2 SATA 6Gb/s (SATA3-SATA4) ports by Intel B85USB 3.0 4 USB 3.0 ports by Intel B85JPWR 1Connectors Back panel - 1 PS/2 mouse / keyboard port - 4 USB 2.0 ports - 2 USB 3.0 ports - 1 VGA port - 1 HDMI port - 1 LAN port - 3 flexible audio ports On-Board - 1 USB 3.0 connector - 2 USB 2.0 connectors - 1 Chassis Intrusion connector - 1 Front Panel Audio connector - 1 TPM Module connector - 1 Serial connectorSlots 1 PCIe x16 slot 2 PCIe x1 slotsForm Factor m-ATX (228 x 226 mm) Feature on Focus All Solid Cap design Click BIOS IV M-Flash Small Business Advantage SATA 6Gb/s USB 3.0Mounting 6 mounting holes* These specification is subject to change without prior notice.(MS-7846v2.0)2013/06/27 Areski28, SweetPotatoe,Jyoti,Bruceeee,Huxtable,ha44yp0tt3r,Pentaris,Laroque,Amjad,Bamthazar Currently Online : 362 (Members: 60, Guests: 302) Threads764,441Messages1,523,432Members33,579Latest memberNicole

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