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## Asus z87-a specs

Processor Intel® Socket 1150 4. for generational core™ i7 / Core™ i5 / Core™ i3 / Pentium® / Celeron® processors support Intel® 22 nm processor supports Intel® Turbo Boost Technology 2.0 \* Intel® Boost Technology 2.0 support depends on processor types. Chipset Intel® Z87 Memory 4 x DIMM, Max. 32GB, DDR3 3000(O.C.) /2933(O.C.) /2800(O.C.) /2666(O.C.) /2600(O.C.) /2500(O.C.) /2400(O.C.) /2200(O.C.) /2133(O.C.) /2000(O.C.) /1866(O.C.) /1800(O.C.) /1600/1333 MHz Non-ECC, non-buffered memory Dual Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) \* Hyper DIMM support is subject to the physical capabilities of individual processors. \* For more www.asus.com QVL (Lists of Approved Vendors), see Lists of Approved Vendors). Graphical Integrated Graphics Processor Multi-VGA Output Support: HDMI/DVI-D/RGB/DisplayPort 1.2 Ports \*1 – Supports HDMI up to the top. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz - Supports DVI-D with maximum resolutions of 1920 x 1200 @ 60 Hz - Supports RGB up to the maximum. resoluutio 1920 x 1200 @ 60 Hz - Tukee DisplayPortia maksimitarkkuuksilla 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz Suurin jaettu muisti 102.4 Mt Tukee jopa 3 näyttöä samanaikaisesti Multi-GPU Support Supports NVIDIA® Quad-GPU SLI™ Technology \*2 Tukee AMD Quad-GPU CrossFireX™ Technology Expansion Slots 2 x PCIe 3.0/2.0 x16 (x16 tai dual x8) 1 x PCIe 2.0 x16 (x2-tila) 2 x PCIe 2.0 x1 2 x PCI Storage Intel® Z87 piirisarja: 6 x SATA 6Gb/s portit , keltainen Tuki Raid 0, 1, 5, 10 tukee Intel® Dynamic Storage Accelerator, Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology\*3 LAN Realtek® 8111GR, 1 x Gigabit LAN -ohjaimet Audio Realtek® ALC892 8-kanavainen teräväpiirtoääniKODOEKKI - Tukee : Jack-detection, Multi-streaming, Front Panel Jack-retasking Audio Ominaisuus : - Absolute Pitch 192kHz / 24-bit True BD Lossless Audio - DTS Ultra PC II - DTS Connect - Optical S/PDIF Port (Ports) on The Back Panel - BD Audio Layer Content Protection Ports USB Intel® Z87 Chipset: 6 x USB 3.0/2.0 Port (4 on Back Panel, Blue, 2 Center Disks) Intel® Z87 Chipset: 8 x USB 2.0/1.1 Ports Special Features ASUS Dual Intelligent Processors 2 DIGI+ VRM: ASUS 5X Protection: - ASUS DIGI+ VRM - 8-Step Digital Power Design - ASUS Enhanced DRAM Overcurrent Protection - Short circuit Damage Prevention - ASUS ESD Shields - Improved ESD Protection - ASUS High quality 5K-hour fixed capacitors - 2.5x long service life with excellent durability time - ASUS Stainless Steel Back I/O - 3x more durable corrosion resistant coating ASUS EPU : - EPU - EPU switch ASUS Digital Power Design : - Industry-leading digital 8-step processor power design - ASUS DIGI + VRM Utility ASUS Unique features: GO! - MemOK! - AI Suite 3 - Ai Charger - Anti-Surge - USB 3.0 Support - ASUS UEFI BIOS EZ Mode with Friendly Graphics Card Interface - Network Network - USB 3.0 Boost - Disk Unlocker ASUS Quiet Thermal Solution: - Stylish fanless design heat sink solution - ASUS Fan Xpert 2 ASUS EZ DIY: - DirectKey - Precision Tweaker 2 - ASUS O.C. Profile - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 - MultilinguAL BIOS ASUS Q-Design : - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector 100% All High Quality Leading Polymer Capacitors Overclock Protection: - ASUS C.P.R.(CPU Parameter Recall) Operating System Supports Windows® 8.1 Windows® 8 Windows® 7 Back I/O Ports 1 x PS / 2 / keyboard 1 x DVI-D 1 x D-Sub 1 x DisplayPort 1 x HDMI 1 x LAN (RJ45) ports 4 x USB 3.0 (blue) 2 x USB 2.0 1 x Optical S/PDIF out 6 x Audio jack (internal) I/O ports 1 x USB 3.0 – connector support (supports) 2 USB 3.0 ports (ports) (19-pin) 3 x USB 2.0 connector support (supports) 6 USB 2.0 ports 1 x TPM header 6 x SATA 6Gb/s connectors 1 x Processor fan connectors (1 x 4 Pin) 1 x Processor OPT Fan Connectors (1 x 4 Pin) 3 x Base Fan Connectors (3 x 4 Pins) 1 x S/PDIF Headers 1 x 24-Pin EATX Power connectors 1 x 8-pin ATX 12V Power connectors 1 x Pre-panel audio connectors (AAFP) 1 x System Panels (Q-Connector) 1 x DirectKey buttons 1 x DRCT labels 1 x MemOK! buttons 1 x TPU switches 1 x EPU switches 1 x Clear CMOS jumpers Accessories User manual I/O Shield 2 x SATA 6Gb/s cable(s) 1 x SLI bridge(s) 1 x Q connectors (2 in 1) BIOS 64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.7, ACPI 5.0, Multilingual BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified Log, F12 PrintScreen, F3 Shortcuts, and ASUS DRAM SPD (Serial Presence Detect) Memory Information Manageability WfM 2.0, DMI 2.7, WOL by PME, PXE Support Disk Controllers ASUS Utilities EZ Update Anti-Update virus software (OEM Version Only) Form Factor ATX Form Factor 12 inch x 8.8 inch ( 30.5 cm x 22.35 cm ) Note \*1 : DP 1.2 Multi-Stream Transport compatible, supports DP 1.2 screen stool chain up to 3 monitors \*2 : 2 with a PCIe16 graphics card. \*3: Intel® Core™ Processor Family Supports Visit the Help Section or Contact Us as ASUS SABERTOOTH Z87 Motherboard - ATX - LGA1150 Socket - Z87 | SABERTOOTH Z87 General Pentium, Celeron, Core i5, Core i3, Core i7 Extension / Connectivity 1 x Processor x DIMM 240-stint2 x PCIe 3.0 x16 (dual x8 mode; single card: x16 mode)1 x PCIe 2.0 x16 (x4 mode)3 x PCIe x1 SATA-600 connectors: 6 x 7pin Serial ATA - 6 devices - RAID 0 / RAID 1 / RAID 10 / RAID 5ASMedia ASM1061: SATA-600 connectors: 2 x SATA 7pin SATA, 2 x 7pin eSATA - 4 devices 4 x USB 2.0 - header2 x USB 3.0 - header1 x SPDIF out - title1 x audio - title 24-pin main power connector, 8-pin ATX12V connector Intel Smart Response Technology Processor Supplied Interface DisplayPort, HDMI, LAN (Gigabit) TOSLINK, USB 2.0, USB 3.0, audio audio lines, audio lines (centre/subwoofer), audio lines (rear), audio lines (page surround), microphone Network Ethernet, Fast Ethernet, Gigabit Ethernet processor/memory Storage memory Miscellaneous compatible with Windows 7 2 x 35mm fan, accessory package Compatible with Windows 7 Compatible Windows 7 software and devices includes Microsoft's assurance that these products have passed compatibility and reliability tests with 32- and 64-bit Windows 7. Audio Video Graphics Audio Output High Definition Audio (8-Channel) RAM Intel Extreme Memory Profiles (XMP), Dual Channel Memory Architecture LAN Supported RAM 1600 MHz, 1333 MHz, 1866 MHz Dual Channel Memory Architecture, Intel Memory Extreme Profiles (XMP) Supported RAM Integrity Check Header Celeron, Core i3, Core i5, Core i7, Pentium 1333 MHz, 1600 MHz, 1866 MHz Supported RAM integrity Check supported RAM (registered or buffered) 24-pin main power connector, 8-pin ATX12V connector Main disk properties ACPI 5.0 support, ASUS EZ Flash 2, ASUS O.C. Profile, DMI 2.7 Support, Multilingual BIOS, SMBIOS 2.7 Support, UEFI BIOS, USB BIOS Flashback, WfM 2.0 Support AMD Quad CrossFireX Technology Support, ASUS 8 +2 Phase Design Power, ASUS EZ DIY, ASUS Network iControl, ASUS Precision T 2, ASUS Q-Connector , ASUS Q-Design, ASUS Q-Shield, ASUS Remote GO!, CrashFree BIOS 3, DirectKey, ESD Guards, Intel Clear Video HD Technology, Intel Extreme Memory Profile (XMP), Intel InTru 3D Technology, Intel Insider, Intel Quick Sync Video, Intel Rapid Start Technology, Intel Smart Connect Technology, Intel Turbo Boost Technology 2.0, MemOK!, Support for NVIDIA Quad SLI technology, Q-DIMM, Q-LED, Q-slot, TUF Dust Defender, TUF Engine!, TUF Fortifier, TUF Thermal Armor with flow valve, TUF Thermal Radar 2, USB 3.0 Boost, Ultimate COOL!, audio jack recognizes technology, connector back access connector Serial ATA-600, Serial ATA-600 (RAID), eSATA Port 6 x SATA-600 (RAID), 2 x SATA-600, 2 x eSATA-600 Intel Smart Response Technology USB / FireWire Port Configuration (Active) 4 x USB 3.0 + 4 x USB 2.0 cable information SLI bridge, Serial ATA cable expansion slots two x8 modes; single card: x16 mode, x4 mode processor, DIMM 240-stained, PCIe 2.0 x16, PCIe 3.0 x16, PCIe x1 Dimensions & Weight Software ASUS Ai Charger, ASUS Ai Suite III, ASUS CPU-Z, ASUS EZ Flash 2, Drivers & utilities Video Memory Service & Support Storage Interfaces 2 x 7pin Serial ATA, 2 x 7pin External SATA, 6 x 7pin Serial ATA RAID 0 / RAID 1 / RAID 10 / RAID 5 Service & Support Details Internal Interfaces SPDIF out, USB 2.0, USB 3.0, audio Features Jack retasking, MemOK!, ASUS Q-Design, ESD Guards, TUF Engine!, Q-DIMM, ASUS EZ DIY, Q-LED, Q-Slot, CrashFree BIOS 3, ASUS Q-Connector, audio jack technology, ASUS Q-Shield, ASUS Precision Tweaker 2, Intel Extreme Extreme Profiili (XMP) -tuki, ASUS 8+2 -vaiheinen tehosuunnittelu, NVIDIA Quad SLI -teknologian tuki, Intel Turbo Boost Technology 2.0, Intel Clear Video HD -tekniikka, Intel Smart Response Technology, USB 3.0 Boost, AMD Quad CrossFireX -teknologiatuki, ASUS Network iControl, Intel Rapid Start -tekniikka, Intel Smart Connect -tekniikka, Intel InTru 3D -tekniikka, Intel Insider, Intel Quick Sync Video, Ultimate COOL!, TUF Dust Defender, ASUS Remote GO!, DirectKey, TUF Thermal Armor flow-venttiilillä, TUF Thermal Radar 2, TUF Fortifier WfM 2.0 -tuki, Monikielinen BIOS, ASUS EZ Flash 2, ASUS O.C. Profiili, USB BIOS Flashback, UEFI BIOS, SMBIOS 2.7 -tuki, DMI 2.7 -tuki, ACPI 5.0 -tuki General Pentium, Celeron, Core i5, Core i3, Core i7 Expansion / Connectivity 1 x CPU4 x DIMM 240-pin2 x PCIe 3.0 x16 (dual x8 mode; single card : x16 mode)1 x PCIe 2.0 x16 (x2 mode)2 x PCIe 2.0 x12 x PCI SATA-600 -connectors: 6 x 7pin Serial ATA - 6 devices - RAID 0 / RAID 1 / RAID 10 / RAID 5 6 x USB 2.0 - header2 x USB 3.0 - header1 x SPDIF out - header1 x audio - header 24-pin main power connector, 8-pin ATX12V connector Intel Smart Response Technology Processor Interface Provided DVI-D, DisplayPort, HDMI, LAN (Gigabit Ethernet), PS/2 keyboard / mouse, TOSLINK, USB 2.0, USB 3.0, VGA, audio line-in, audio line-out, audio line-out (center/subwoofer), audio line-out (rear), audio line-out (side surround), microphone Networking Ethernet, Fast Ethernet, Gigabit Ethernet Processor / Memory / Storage Memory Miscellaneous Compatible with Windows 7 Compatible with Windows 7 Compatible with Windows 7 software and devices carry Microsoft's assurance that these products have passed tests for compatibility and reliability with 32-bit and 64-bit Windows 7. Audio DTS Connect, High Definition Audio, DTS UltraPC II Videograffikkasoviitin (prosessori vaaditaan) Grafiikka Audio Output DTS Connect, DTS UltraPC II, High Definition Audio High Definition Audio (8-kanavainen) RAM Intel Extreme Memory Profiles (XMP), kaksikanavainen muistiarkkitehtuuri LAN Tuettu RAM 2400 MHz, 2200 MHz, 2000 MHz, 1800 MHz, 1600 MHz, 1333 MHz, 1866 MHz, 2133 MHz, 2800 MHz, 3000 MHz, 2600 MHz, 2666 MHz, 2500 MHz, 2933 MHz Kaksikanavainen muistiarkkitehtuuri, Intel Extreme Memory Profiles (XMP) Tuettu RAM-ehyden tarkistusotsikko Päälevy Celeron, Core i3, Core i5, Core i7, Pentium 1333 MHz, 1600 MHz, 1800 MHz, 1866 MHz, 2000 MHz, 2133 MHz, 2200 MHz, 2400 MHz, 2500 MHz, 2600 MHz, 2666 MHz, 2800 MHz, 3000 MHz Tuettu RAM-ehyets Tarkista tuettu RAM (rekisteröity tai puskuroitu) 24-nastainen päävirtaliitin , 8-nastainen ATX12V-liitin Päälevy sisältää ACPI 5.0 -tuen, ASUS EZ Flash 2, ASUS O.C. Profiili, ASUS Quiet Thermal Solution, DMI 2.7 -tuen, Monikielinen BIOS, SMBIOS 2.7 -tuki, UEFI BIOS, WfM 2.0 -tuki 4K Ultra HD ready, 8 Phase Power Design, AMD Quad CrossFireX -teknologiatuki, ASUS 5X PROTECTION, ASUS Suojaus, ASUS DIGI+ VRM, ASUS EPU (energianjalostusyksikkö), ASUS EZ DIY, ASUS Fan Xpert 2, ASUS Network iControl, ASUS Precision Tweaker 2, ASUS Q-Connector, ASUS Q-Design, ASUS Remote GO!, All-Solid Kondenssaattorin emolevyn suunnittelu, C.P.R. (CPU-parametrien palautus), Johtava polymeerikondensaattorit, CrashFree BIOS 3, DirectKey, Disk Unlocker, Dual Intelligent Processors 2, ESD-suojukset, fanless Design Heatsink, Intel Dynamic Storage Accelerator, Intel Extreme Memory Profile (XMP) -tuki, Intel Rapid Start -tekniikka, Intel Smart Connect -tekniikka, Intel Smart Response Technology, Intel Turbo Boost Technology 2.0, MemOK!, NVIDIA Quad SLI Technology Support, Q-DIMM, Q-LED, Q-Slot, USB 3.0 Boost, ääniliittimen tuntotekniikka, liittännän uudelleenkäyttö Liitännät Intel Smart Response Technology

USB / FireWire Ports Configuration (Active) 4 x USB 3.0 + 2 x USB 2.0 Cable Details SLI -silta , Sarja-ATA-kaapelin laajennuspaikat kaksi x8-tilaa; yksittäinen kortti: x16-tila, x2-tilan suoriitin, DIMM 240-nastainen, PCI, PCIe 2.0 x1, PCIe 2.0 x16, PCIe 3.0 x16 Mitat & Paino-ohjelmisto ASUS AI Charger, ASUS AI Suite III, ASUS EZ Flash 2, drivers & utilities Video Memory Service & Support Storage Interfaces RAID 0 / RAID 1 / RAID 10 / RAID 5 Service & Support Details Sisäiset liitännät SPDIF ulos, USB 2.0, USB 3.0, ääniominaisuudet C.P.R. (CPU Parameter Recall), jack retasking, ASUS Anti-Surge Protection, MemOK!, 8-vaiheinen tehosuunnittelu, ASUS Q-Design, ESD-suojukset, Q-DIMM, ASUS EZ DIY, Q-LED, Q-slot, CrashFree BIOS 3, ASUS Q-Connector, All-Solid Capaci emolevyn suunnittelu, ääniliitännän tuntelevytekniikka, ASUS EPU (energiäkäsitelyyksikkö), ASUS Precision Tweaker 2, Intel Extreme Memory Profile (XMP) -tuki, NVIDIA Quad SLI -teknologian tuki, Intel Turbo Boost Technology 2.0 , ASUS DIGI+ VRM , Intel Smart Response Technology, Fanless Design Heatsink, Dual Intelligent Processors 2, Conductive Polymer Kondensaattorit, USB 3.0 Boost, AMD Quad CrossFireX -teknologiatuki, ASUS Fan Xpert 2, ASUS Network iControl, Intel Rapid Start Technology, Intel Smart Connect Technology, ASUS Remote GO!, DirectKey, Disk Unlocker, ASUS 5X PROTECTION, 4K Ultra HD ready, Intel Dynamic Storage Accelerator WfM 2.0 -tuki, Monikielinen BIOS, ASUS Quiet Thermal Solution, ASUS EZ Flash 2, ASUS O.C. Profile, UEFI BIOS, SMBIOS 2.7 -tuki, DMI 2.7 -tuki, ACPI 5.0 -tuki

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