



Product Comparison

The Requirements You Selected Include:

 <p>X99-DELUXE II</p>	 <p>X99-DELUXE/U3.1</p>	
CPU		
Intel® Socket 2011-v3 Core™ i7 Processors Supports Intel® 14 nm CPU Supports Intel® Turbo Boost Max Technology 3.0 * Refer to www.asus.com for CPU support list	Intel® Socket 2011-v3 Core™ i7 Processors Supports Intel® 22 nm CPU Supports Intel® Turbo Boost Technology * The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.	
Chipset		
Intel® X99	Intel® X99	
Memory		
8 x DIMM, Max. 128GB, DDR4 3333(O.C.)/3300(O.C.)/3200(O.C.)/3000(O.C.)/2800(O.C.)/2666(O.C.)/2400(O.C.)/2133 MHz Non-ECC, Un-buffered Memory Quad Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) ** Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists). * Hyper DIMM support is subject to the physical characteristics of individual CPUs.	8 x DIMM, Max. 64GB, DDR4 3200(O.C.)/3000(O.C.)/2800(O.C.)/2666(O.C.)/2400(O.C.)/2133 MHz Non-ECC, Un-buffered Memory Quad Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) * Hyper DIMM support is subject to the physical characteristics of individual CPUs. ** Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).	
Multi-GPU Support		
Supports NVIDIA® Quad-GPU SLI™ Technology Supports NVIDIA® 3-Way SLI™ Technology Supports AMD Quad-GPU CrossFireX™ Technology Supports AMD 3-Way CrossFireX™ Technology	Supports NVIDIA® Quad-GPU SLI™ Technology Supports NVIDIA® 3-Way SLI™ Technology Supports AMD Quad-GPU CrossFireX™ Technology Supports AMD 3-Way CrossFireX™ Technology	
Expansion Slots		
40-Lane CPU- 4 x PCIe 3.0/2.0 x16 (x16, x16/x16, x16/x16/x8, x8/x8/x8/x8) * ¹ 1 x PCIe 2.0 x16 (x1 mode) 1 x PCIe 2.0 x16 (max at x4 mode) * ³ 1 x PCIe 2.0 x1 28-Lane CPU- 3 x PCIe 3.0/2.0 x16 (x16, x16/x8, x8/x8/x8) * ² 1 x PCIe 2.0 x16 1 x PCIe 2.0 x16 (max at x4 mode) * ³ 1 x PCIe 2.0 x1	40-Lane CPU- 5 x PCIe 3.0/2.0 x16 (x16, x16/x16, x16/x16/x8, x8/x8/x16/x8, x8/x8/x8/x8/x8 mode) * ¹ 1 x PCIe 2.0 x4 (max at x4 mode) * ² 28-Lane CPU- 3 x PCIe 3.0/2.0 x16 (x16, x16/x8, x8/x8/x8) 2 x PCIe 2.0 x16 (x1 mode) 1 x PCIe 2.0 x4 (max at x4 mode) * ²	
Storage		
New Intel® Core™ i7 Processors : 2 x U.2 port, support PCIe 3.0 x4 NVM Express storage 1 x M.2 Socket 3, with vertical M Key design, type 2242/2260/2280 storage devices support (Support PCIe SSD only) Intel® X99 chipset : 1 x SATA Express port, Compatible with 2 x SATA 6.0 Gb/s ports 8 x SATA 6Gb/s port(s)* ⁴ , Support Raid 0, 1, 5, 10 Supports Intel® Smart Response Technology* ⁵	New Intel® Core™ i7 Processors : 1 x M.2 Socket 3, with vertical M Key design, type 2242/2260/2280 storage devices support (Support PCIe SSD only) Intel® X99 chipset : 1 x SATA Express port, compatible with 2 x SATA 6.0 Gb/s ports 8 x SATA 6Gb/s port(s), * ³ , Support Raid 0, 1, 5, 10 Supports Intel® Smart Response Technology, Intel® Rapid Recovery Technology* ⁴ ASMedia® SATA Express controller : *⁵	

		1 x SATA Express port , compatible with 2 x SATA 6.0 Gb/s ports		
LAN				
Intel® I218V, 1 x Gigabit LAN Controller(s) Intel® I211-AT, 1 x Gigabit LAN Dual Gigabit LAN controllers- 802.3az Energy Efficient Ethernet (EEE) appliance Support Teaming Technology ASUS Turbo LAN Utility ASUS LAN Guard		Intel® I218V, 1 x Gigabit LAN Controller(s) Intel® I211-AT, 1 x Gigabit LAN Dual Gigabit LAN controllers- 802.3az Energy Efficient Ethernet (EEE) appliance Support Teaming Technology ASUS Turbo LAN Utility		
Wireless Data Network				
Wi-Fi 802.11 a/b/g/n/ac Supports dual band frequency 2.4/5 GHz Support ASUS Wi-Fi Go! Utility Up to 1300Mbps transfer speed		Wi-Fi 802.11a/b/g/n/ac Supports dual band frequency 2.4/5 GHz Support ASUS Wi-Fi Go! Utility Up to 1300Mbps transfer speed		
Bluetooth				
Bluetooth V4.0		Bluetooth V4.0		
Audio				
Realtek® ALC1150 8-Channel High Definition Audio CODEC featuring Crystal Sound 3 - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking - High quality 112 dB SNR stereo playback output (Line-out at rear) and 104 dB SNR recording input (Line-in) Audio Feature : - Absolute Pitch 192kHz/ 24-bit True BD Lossless Sound - DTS Connect - DTS Studio Sound - Optical S/PDIF out port(s) at back panel - BD Audio Layer Content Protection - Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals - Audio amplifier: Provides the highest-quality sound for headphone and speakers - Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity - Unique de-pop circuit: Reduces start-up popping noise to audio outputs - Top notch audio sensation delivers according to the audio configuration - Power pre-regulator: Reduces power input noise to ensure consistent performance Separate layer for left and right track, ensuring both sound deliver equal quality		Realtek® ALC1150 8-Channel High Definition Audio CODEC featuring Crystal Sound 2 - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking - High quality 112 dB SNR stereo playback output (Line-out at rear) and 104 dB SNR stereo playback input (Line-in) - High-fidelity audio OP AMP(s) Audio Feature : - DTS Ultra PC II - DTS Connect - Optical S/PDIF out port(s) at back panel - BD Audio Layer Content Protection - Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference - Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals - Audio amplifier: Provides the highest-quality sound for headphone and speakers - Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity - Unique de-pop circuit: Reduces start-up popping noise to audio outputs - Top notch audio sensation delivers according to the audio configuration - EMI protection cover to prevent electrical noise to affect the amplifier quality		
USB Ports				
Intel® X99 chipset : 4 x USB 3.0/2.0 port(s) () Intel® X99 chipset : 6 x USB 2.0/1.1 port(s) (4 at back panel,) ASMedia® USB 3.1 controller : 3 x USB 3.1 port(s) (3 at back panel, teal blue, Type-A) ASMedia® USB 3.1 controller : 1 x USB 3.1 port(s) (1 at back panel, , Type-C, Reversible) ASMedia® USB 3.0 Hub : 4 x USB 3.0/2.0 port(s) (4 at back panel, blue)		Intel® X99 chipset : 4 x USB 3.0/2.0 port(s) (4 at mid-board) Intel® X99 chipset : 6 x USB 2.0/1.1 port(s) (2 at back panel, , 4 at mid-board) ASMedia® USB 3.0 controller : 10 x USB 3.0/2.0 port(s) (10 at back panel, blue)		
Special Features				
5-Way Optimization by Dual Intelligent Processors 5 - 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Xpert 4, and Turbo Core App ASUS 5X Protection II : - ASUS LANGuard - 2.5X higher surge tolerance - ASUS Overvoltage Protection - World-class circuit-protecting power design - ASUS DIGI+ VRM - 8 Phase digital power design - ASUS DRAM Overcurrent Protection - Prevents damage from short circuit		ASUS Exclusive Features : - MemOK! - AI Suite 3 - Ai Charger+ - USB Charger+ - M.2 & SATA Express - Anti-Surge - Onboard Button : Power/Reset - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface		

<p>its</p> <ul style="list-style-type: none"> - ASUS Stainless-Steel Back I/O - 3X corrosion-resistance for greater durability <p>ASUS EPU :</p> <p>ASUS Wi-Fi GO!</p> <ul style="list-style-type: none"> - Wi-Fi GO! Function: Cloud GO!, Remote Desktop, Remote Keyboard & Mouse, File Transfer <p>ASUS Exclusive Features :</p> <ul style="list-style-type: none"> - USB BIOS Flashback - MemOK! - AI Suite 3 - Ai Charger+ - M.2 & SATA Express - Anti-Surge - USB 3.1 Boost - Disk Unlocker - Turbo LAN - Crystal Sound 3 - EZ XMP ASUS Exclusive Features - Mobo Connect - PC Cleaner <p>Remote Entertainment</p> <ul style="list-style-type: none"> - Media Streamer - HyStream <p>ASUS Quiet Thermal Solution :</p> <ul style="list-style-type: none"> - Stylish Design Heat-pipe solution - ASUS Fan Xpert 4 <p>ASUS EZ DIY :</p> <ul style="list-style-type: none"> - DirectKey - Precision Tweaker 2 - ASUS CrashFree BIOS - ASUS EZ Flash 3 - ASUS USB BIOS Flashback - ASUS UEFI BIOS EZ Mode - Multi-language BIOS - Push Notice <p>ASUS Q-Design :</p> <ul style="list-style-type: none"> - ASUS Q-Shield - ASUS Q-Code - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector <p>Special Memory O.C. Design</p> <p>Key Express</p>	<ul style="list-style-type: none"> - USB 3.1 Boost - Disk Unlocker - Turbo LAN - Crystal Sound 2 <p>Interactive HomeCloud</p> <ul style="list-style-type: none"> - Media Streamer <p>ASUS Quiet Thermal Solution :</p> <ul style="list-style-type: none"> - Stylish Fanless Design Heat-pipe solution - ASUS Fan Xpert 3 <p>ASUS EZ DIY :</p> <ul style="list-style-type: none"> - Precision Tweaker 2 - ASUS O.C. Tuner - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 - ASUS USB BIOS Flashback - Push Notice <p>ASUS Q-Design :</p> <ul style="list-style-type: none"> - ASUS Q-Shield - ASUS Q-Code - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector 	
Operating System Support		
<p>Windows® 10 , 64bit</p> <p>Windows® 8.1 , 32bit/64bit</p> <p>Windows® 7 , 32bit/64bit</p>		
Back I/O Ports		
<p>2 x LAN (RJ45) port(s)</p> <p>3 x USB 3.1 Type-A</p> <p>1 x USB 3.1 Type-C</p> <p>4 x USB 3.0 (blue)</p> <p>4 x USB 2.0 (one port can be switched to USB BIOS Flashback)</p> <p>1 x Optical S/PDIF out</p> <p>5 x Audio jack(s)</p> <p>1 x USB BIOS Flashback Button(s)</p> <p>1 x ASUS Wi-Fi GO! module (Wi-Fi 802.11 a/b/g/n/ac and Bluetooth v4.0/3.0+HS)</p>	<p>2 x LAN (RJ45) port(s)</p> <p>10 x USB 3.0 (blue)</p> <p>2 x USB 2.0</p> <p>1 x Optical S/PDIF out</p> <p>5 x Audio jack(s)</p> <p>1 x USB BIOS Flashback Button(s)</p> <p>1 x ASUS Wi-Fi GO! module (Wi-Fi 802.11 a/b/g/n/ac and Bluetooth v4.0)</p>	
Internal I/O Ports		
<p>1 x AAFP connector</p> <p>1 x Aura RGB Strip Header</p> <p>2 x USB 3.0 connector(s) support(s) additional 4 USB 3.0 port(s)</p> <p>1 x USB 2.0 connector(s) support(s) additional 2 USB 2.0 port(s)</p> <p>1 x SATA Express connector: ,</p>	<p>1 x AAFP connector</p> <p>2 x USB 3.0 connector(s) support(s) additional 4 USB 3.0 port(s) (19-pin)</p> <p>2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)</p> <p>2 x SATA Express connector: gray,</p> <p>1 x M.2 Socket 3 with vertical M Key design, type 2242/2260/2280 storag</p>	

1 x M.2 Socket 3 with vertical M Key design, type 2242/2260/2280 storage devices support (Support PCIe SSD only) 1 x TPM connector(s) 8 x SATA 6Gb/s connector(s) 1 x CPU Fan connector(s) (1 x 4 -pin) 1 x CPU OPT Fan connector(s) (1 x 4 -pin) 2 x Chassis Fan connector(s) (2 x 4 -pin) 1 x S/PDIF out header(s) 1 x Thunderbolt header(s) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s) 1 x 4-pin ATX 12V Power connector(s) 1 x EZ XMP switch 1 x SLI/CFX switch (2/3-WAY adjustments) 1 x System panel(s) (Q-Connector) 1 x DRCT header(s) 1 x MemOK! button(s) 1 x Thermal sensor connector(s) 1 x CPU/DRAM overvoltage jumper(s) 1 x Power-on button(s) 1 x Reset button(s) 1 x Clear CMOS button(s) 1 x 5-pin EXT_FAN(Extension Fan) connector 1 x Water Pump header (4-pin) 1 x High AMP Fan header (4-pin)	e devices support (Support PCIe SSD only) 1 x TPM connector(s) 8 x SATA 6Gb/s connector(s) 1 x CPU Fan connector(s) (1 x 4 -pin) 1 x CPU OPT Fan connector(s) (1 x 4 -pin) 4 x Chassis Fan connector(s) (4 x 4 -pin) 1 x S/PDIF out header(s) 1 x Thunderbolt header(s) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s) 1 x EZ XMP switch 1 x System panel(s) (Q-Connector) 1 x Chassis Intrusion connector(s) 1 x DRCT header(s) 1 x MemOK! button(s) 1 x Thermal sensor connector(s) 1 x TPU switch(es) 1 x EPU switch(es) 1 x CPU/DRAM overvoltage jumper(s) 1 x Power-on button(s) 1 x Reset button(s) 1 x Clear CMOS button(s) 1 x 5-pin EXT_FAN(Extension Fan) connector 1 x SLI/CFX switch (2/3-WAY adjustments)	
Accessories		
User's manual ASUS Q-Shield 8 x SATA 6Gb/s cable(s) 1 x ASUS 2-Way/3-Way SLI bridge 1 x M.2 X4 bracket 1 x M.2 Screw Package 1 x CPU installation tool 1 x Supporting DVD 1 x ASUS 3T3R dual band Wi-Fi moving antennas (Wi-Fi 802.11a/b/g/n/ac compliant) 1 x HYPERM.2 X4 with M Key design, type 2230/2242/2260/2280/22110 storage devices support (Support PCIe SSD only) 1 x Fan Extension Card (3 x 4-pin fan out) 1 x Thermistor cable(s)	User's manual ASUS Q-Shield 8 x SATA 6Gb/s cable(s) 1 x ASUS 2-Way/3-Way SLI bridge 1 x M.2 X4 bracket 1 x Supporting DVD 1 x ASUS 3T3R dual band Wi-Fi moving antennas (Wi-Fi 802.11a/b/g/n/ac compliant) 1 x Fan Extension Card (3 x 4-pin fan out) 1 x Q-connector(s) (2 in 1) 1 x ASUS USB 3.1 CARD(2-ports Type A) 1 x 5-pin to 5-pin cable - 1 x Thermistor cable(s)	
BIOS		
128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified log, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information.	128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.7, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 2, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified log, F12 PrintScreen, F3 Shortcut functions and ASUS DRAM SPD (Serial Presence Detect) memory information.	
Manageability		
WfM 2.0, WOL by PME, PXE	WfM 2.0, DMI 2.7, WOL by PME, PXE	
Support Disc		
Drivers ASUS Utilities EZ Update Anti-virus software (OEM version)	Drivers · ASUS Utilities · EZ Update · Anti-virus software (OEM version)	
Form Factor		
ATX Form Factor 12 inch x 9.6 inch (30.5 cm x 24.4 cm)	ATX Form Factor 12 inch x 9.6 inch (30.5 cm x 24.4 cm)	
Note		
*1:PCIe x16_3 shares bandwidth with M.2 and U.2_2. It runs at x16 mode by default. PCIe X16_5 shares bandwidth with U.2_1. It runs at x4 mode by default with U.2_1 enabled. *2:PCIe x16_3 shares bandwidth with M.2 and U.2_2. It runs at x8 mode by default. PCIe X16_4 shares bandwidth with U.2_1. It is disabled by default.	*1: The PCIe x16_5 shares bandwidth with M.2 x4. Triple PCIe 3.0/2.0 configuration is default set at x8/x8/x8. Adjust PCIEX16_5 Slot Bandwidth in BIOS. *2: The PCIe x4_1, USB3_E12 and SATAEXPRESS_E1 connectors share the same bandwidth. The SATAEXPRESS_E1 will be disabled when there is a device.	

It. *3: PCIe x16_2 shares bandwidth with USB3_34 and USB 3.1_EA34. It runs at x2 mode by default. *4:Due to chipset behavior, The SATA6G_78, SATA6G_910 ports do not support IRST including RAID configuration. *5:These functions will work depending on the CPU installed.		vice installed on PCIE_X4_1 slot. Set this option to X2 Mode or X4 Mode when the installed PCIe device is higher than X4 interface. *3: Due to chipset behavior, The SATA6G_78, SATA6G_910 ports (black) do not support IRST including RAID configuration. *4: These functions will work depending on the CPU installed. *5: These SATA ports are for data hard drivers only. ATAPI devices are not supported.
Operating System		
		Windows® 8.1 32/64-bit Windows® 8 32/64-bit Windows® 7 32/64-bit

Want More?

Who We Are

Need Help?

Community

United States / English

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