Product Comparison

Print

The Requirements You Selected Include:

	X99-A/USB 3.1(TRANSFER EXPRESS)	X99-S			
					
CPU					
	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.	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. 64GB, DDR4 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	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- 3 x PCIe 3.0/2.0 x16 (x16, x16/x16, x16/x16/x8) *1 **28-Lane CPU-** 3 x PCIe 3.0/2.0 x16 (x16, x16/x8, x16/x8/x4) *2 1 x PCIe 2.0 x16 (x4 mode) *3 2 x PCIe 2.0 x1 (x1 mode) *3	**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 : 1 x M.2 Socket 3, , with M Key, type 2242/2260/2280/22110 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, Intel® Rapid Recovery Technology	**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			

*5	*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® I218V, 1 x Gigabit LAN Controller (s) Gigabit Intel® LAN Connection- 802.3az Energy Efficient Ethernet (EEE) appliance Support Teaming Technology ASUS Turbo LAN Utility			
Audio				
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	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 : 5 x USB 3.0/2.0 port(s) (1 at back panel, , 4 at mid-board) **Intel® X99 chipset :** 8 x USB 2.0/1.1 port(s) (4 at back panel, , 4 at mid-board) **ASMedia® USB 3.0 controller :** 3 x USB 3.0/2.0 port(s) (3 at back panel,) **ASMedia® USB 3.1 controller :** 2 x USB 3.1/3.0/2.0 port(s) (2 at back panel, teal 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 :** 8 x USB 3.0/2.0 port(s) (8 at back panel, blue)			
Special Features				
5-Way Optimization by Dual Intelligent Processors 5 - Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ Power Control, Fan Xpert 3, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages. **ASUS 5X Protection :** - ASUS DIGI+ VRM - 8 Phase digital power design - ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention - ASUS ESD Guards - Enhanced ESD protection	**5-Way Optimization by Dual Intelligent Processors 5** - Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ Power Control, Fan Xpert 3, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages. **ASUS 5X Protection :** - ASUS DIGI+ VRM - 8 Phase digital power design - ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention - ASUS ESD Guards - Enhanced ESD protection			

- ASUS High-Quality 5K-Hour Solid Capacitors - 2.5x long lifespan with excellent durability - ASUS Stainless Steel Back I/O - 3x more durable corrosion-resistant coating **ASUS TPU :** - Auto Tuning - GPU Boost - TPU switch **ASUS EPU :** - EPU switch **ASUS Digital Power Design :** - Industry leading Digital 8 Phase Power Design - Industry leading Digital 4 Phase DRAM Power Design - CPU Power Utility - DRAM Power Utility **ASUS Exclusive Features** : - Remote GO! - USB BIOS Flashback - 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 - USB 3.1 Boost - Disk Unlocker - Turbo LAN - Crystal Sound 2 **Interactive HomeCloud** - Media Streamer **ASUS EZ DIY :** - Precision Tweaker 2 - ASUS O.C. Tuner - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 - ASUS USB BIOS Flashback - Push Notice **ASUS Q-Design :** - ASUS Q-Shield - ASUS Q-Code - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector **Special Memory O.C. Design** **Turbo App** **Fan Xpert 3**	- ASUS High-Quality 5K-Hour Solid Capacitors - 2.5x long lifespan with excellent durability - ASUS Stainless Steel Back I/O - 3x more durable corrosion-resistant coating **ASUS TPU :** - Auto Tuning - GPU Boost - TPU switch **ASUS EPU :** - EPU switch **ASUS Digital Power Design :** - Industry leading Digital 8 Phase Power Design - Industry leading Digital 4 Phase DRAM Power Design - CPU Power Utility - DRAM Power Utility **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 - USB 3.0 Boost - Disk Unlocker - Turbo LAN - Crystal Sound 2 **Interactive HomeCloud** - Media Streamer **ASUS EZ DIY :** - Precision Tweaker 2 - ASUS O.C. Tuner - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 - ASUS USB BIOS Flashback - Push Notice **ASUS Q-Design :** - ASUS Q-Shield - ASUS Q-Code - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector **Special Memory O.C. Design** **Turbo App** **Fan Xpert 3**			
Operating System Support				
Windows® 8.1 Windows® 8 Windows® 7				
Back I/O Ports				
1 x PS/2 keyboard/mouse combo port(s) 1 x LAN (RJ45) port(s) 2 x USB 3.1 (teal blue) 4 x USB 3.0 (blue) 4 x USB 2.0 1 x Optical S/PDIF out 5 x Audio jack(s) 1 x USB BIOS Flashback Button(s)	1 x LAN (RJ45) port(s) 8 x USB 3.0 (blue) 2 x USB 2.0 1 x Optical S/PDIF out 5 x Audio jack(s) 1 x USB BIOS Flashback Button(s)			
Internal I/O Ports				
1 x AAFP connector 2 x USB 3.0 connector(s) support(s) additional 4 USB 3.0 port(s) (19-pin) 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s) 1 x SATA Express connector: gray, 1 x M.2 Socket 3 with M Key design, type 2242/2260/2280/22110 storage devices support (Support PCIE SSD only) 1 x TPM connector(s) 1 x COM port(s) connector(s) 8 x SATA 6Gb/s connector(s)	1 x AAFP connector 2 x USB 3.0 connector(s) support(s) additional 4 USB 3.0 port(s) (19-pin) 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s) 2 x SATA Express connector: gray, 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 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 jumper(s) 1 x 5-pin EXT_FAN(Extension Fan) connector	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 4 x SATA 6Gb/s cable(s) 1 x TRANSFER EXPRESS box 1 x 120cm external USB 3.0 cable for TRANSFER EXPRESS 1 x 40cm external USB 3.0 cable for TRANSFER EXPRESS 1 x SLI bridge(s) 1 x Q-connector(s) (2 in 1)	User's manual ASUS Q-Shield 3 x SATA 6Gb/s cable(s) 1 x M.2 X4 bracket 1 x Supporting DVD 1 x SLI bridge(s) 1 x Q-connector(s) (2 in 1)			
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* The PCIe x16_4 shares bandwidth with M.2 x4. When M.2 socket is occupied, the PCIe x16_4 slot will be disabled. 2* The PCIe x16_4 shares bandwidth with M.2 x4. When M.2 socket is occupied, the PCIe x16_4 slot will be disabled.The PCIe x16_3 slot support x8 devices only. 3* The PCIe x16_2, PCIe x1_1 and USB3_E56 connectors share the same bandwidth. By default, the PCIe x16_2 slot and PCIe x1_1 slot will automatically run at x1 mode with USB3_E56 enabled for best resource optimization. 4* Due to chipset behavior, The SATA6G_78, SATA6G_910 ports (black) do not support IRST including RAID configuration. 5* These functions will work depending on the CPU installed.	*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 PCIex4_1, USB3_E12 and SATAEXPRESS_E1 connectors share the same bandwidth. The SATAEXPRESS_E1 will be disabled when there is a device installed on PCIEX4_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.			
BIOS				
	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, DMI 2.7, WOL by PME, PXE			
Support Disc				
	Drivers、ASUS Utilities、EZ Update 、Anti-virus software (OEM version)			
Operating System				

	Windows® 8.1 32/64-bit Windows® 8 32/64-bit Windows® 7 32/64-bit			

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