



Premium Gold Caps

PCIe Gen3

Product Brief

- Premium Gold Caps
- Digi Power Design, 8 + 4 Power Phase Design
- Supports Dual Channel DDR3 1600
- 2 x PCIe 3.0 x16 Slots, 1 x PCIe 2.0 x16 Slot, Supports AMD 3-Way CrossFireX
- Supports Broadcom Dual PCIE GLAN
- 8 USB 3.0 (2 Front, 6 Rear), 6 SATA3, 1 eSATA3
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)

Detail Specification

Platform	- ATX Form Factor - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Intel® Socket 1155 for 3rd/2nd Generation Core™ i7/Core™ i5/Core™ i3 Processors - Intel® Socket 1155 for Intel® E3-1200/12x5 v2 processors - Supports Intel® 32 nm CPU - Supports Intel® 22 nm CPU - Digi Power Design - 8 + 4 Power Phase Design - Supports Intel® Turbo Boost 2.0 Technology - Supports Hyper-Threading Technology
Chipset	- Intel® C216
Memory	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 1600/1333/1066 ECC/ non-ECC, un-buffered memory * ECC memory is supported with Xeon® E3 CPU only. - Max. capacity of system memory: 32GB
Expansion Slot	- 2 x PCI Express 3.0 x16 slots (PCI2E/PCI4: Single at x16 (PCI2E) mode or dual at x8 (PCI2E) / x8 (PCI4) mode) * PCIe Gen3 is supported on 3rd Generation of Intel® Core™ i5 and Core™ i7 CPUs. - 1 x PCI Express 2.0 x16 slot (PCI5: x4 mode) - 2 x PCI Express 2.0 x1 slots - 2 x PCI slots - Supports AMD Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™
Graphics	* Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video 2.0, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 2500/4000 with Intel® Ivy Bridge CPU - Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® HD Graphics 2000/3000, Intel® Advanced Vector Extensions (AVX) with Intel® Sandy Bridge CPU - Pixel Shader 5.0, DirectX 11 with Intel® Ivy Bridge CPU. Pixel Shader 4.1, DirectX 10.1 with Intel® Sandy Bridge CPU. - Max. shared memory 1760MB with Intel® Ivy Bridge CPU. Max. shared memory 1759MB with Intel® Sandy Bridge CPU. - Supports HDMI 1.4a Technology with max. resolution up to 1920x1200 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI (Compliant HDMI monitor is required) - Supports HDCP function with HDMI port - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with HDMI port
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray audio support
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Broadcom BCM57781 - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE
Storage	- 2 x SATA3 6.0 Gb/s connectors by Intel® C216, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage and Intel Smart Response Technology), NCQ, AHCI and "Hot Plug" functions - 4 x SATA3 6.0 Gb/s connectors by ASMedia ASM1061, support NCQ, AHCI and "Hot Plug" functions (SATA3_A4 connector is shared with eSATA3 port) - 4 x SATA2 3.0 Gb/s connectors by Intel® C216, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage and Intel Smart Response Technology), NCQ, AHCI and Hot Plug functions
Rear Panel I/O	I/O Panel - 1 x PS/2 Keyboard/Mouse Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 4 x Ready-to-Use USB 2.0 Ports - 1 x eSATA3 Connector - 6 x Ready-to-Use USB 3.0 Ports - 2 x RJ-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) - 1 x IEEE 1394 Port - HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
USB 3.0	- 2 x Rear USB 3.0 ports by Intel® C216, support USB 1.1/2.0/3.0 up to 5Gb/s - 4 x Rear USB 3.0 ports by Etron EJ188H, support USB 1.1/2.0/3.0 up to 5Gb/s - 1 x Front USB 3.0 header by Intel® C216 (supports 2 USB 3.0 ports), supports USB 1.1/2.0/3.0 up to 5Gb/s
Connector	- 1 x IR header - 1 x COM port header - 1 x HDMI SPDIF header - 1 x IEEE 1394 header - 1 x Power LED header - 2 x CPU Fan connectors (1 x 4-pin, 1 x 3-pin) - 3 x Chassis Fan connectors (1 x 4-pin, 2 x 3-pin) - 1 x Power Fan connector (3-pin) - 24 pin ATX power connector - 8 pin 12V power connector - Front panel audio connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports) - 1 x USB 3.0 header (supports 2 USB 3.0 ports) - 1 x Dr. Debug (7-Segment Debug LED)
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - CPU Core, iGPU, DRAM, 1.8V PLL, VTT, VCCSA Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Client OS, Trial Version)
Unique Feature	- ASRock Instant Flash - ASRock Crashless BIOS
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU Temperature) - CPU/Chassis Fan Multi-Speed Control - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit compliant
Certifications	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
Accessories	- User Manual, Support CD, I/O Shield - 6 x SATA Data Cables

Board Diagram

