Intel® H77 Chipset













Product Brief

- 100% All Solid Capacitor design
- Supports Dual Channel DDR3 1600*
- 1 x PCle 3.0 x16 Slot, 1 x PCle 2.0 x16 Slot, Support AMD Quad CrossFireX[™] and $CrossFireX^{TM}$
- PCIE Dual Gigabit LAN with Teaming Function
- Supports Intel® HD Graphics with Built-in Visuals
- Combo Cooler Option (C.C.O.)
- Supports ASRock XFast RAM, XFast LAN, XFast USB, Crashless BIOS**
- Supports Intel Smart Connect Technology, Intel Rapid Start Technology**
- * DDR3-1600 is only supported with 3rd Gen Intel® Core™ Processors
- ** The supported software tools are supported with client OS.

Specifications		
	Form Factor	- ATX
Physical status	Dimensions	- 12" x 9.6" (30.5 cm x 24.4 cm)
Processor System	CPU	- Supports 3 rd and 2 rd Generation Intel® Core TM i7 / i5 / i3 and Pentitum® / Celeron® and Intel® Xeon® E3-1200 & v2 Series Processors in LGA1155 Package - Supports Intel® K-Series CPU - Supports Hyper-Threading Technology - Supports Intel® Turbo Boost 2.0 Technology
	Socket	- Single Socket H2 (LGA1155)
	Power phase	- 4 + 2 Power Phase Design
System Memory	Chipset	- Intel® H77 - 4 x 240-pin DDR3 DIMM slots
	Capacity	- Support up to 32GB, un-buffered DIMM
	Туре	- Dual Channel DDR3 memory technology - Supports DDR3 1600*/1333/1066* (DDR3 1600 with Intel® Ivy Bridge CPU, DDR3 1333 with Intel® Sandy Bridge CPU) - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2 "
	Voltage	- Supports 1.35V to 1.60V
Expansion Slot	PCle 3.0 x 16	- 1 slot (PCIE1: x16 mode)
	PCIe 2.0 x 16	- 1 slot (PCIE2: x4 mode) - 2 slots
	PCI Controller	- 2 slots - Intel® HD Graphics Built-in Visuals and the VGA outputs can be
Graphics		supported only with processors which are GPU integrated.
	VRAM Output	- Max. shared memory 1760MB
	Interface	- Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz - Gigabit LAN 10/100/1000 Mb/s
Ethernet	LAN Controller	- 2 x Realtek RTL8111E - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE
Storage	SATA controller	- Intel H77: 2 x SATA3 6.0 Gb/s , 4 x SATA2 3.0 Gb/s , support RAID 0, 1, 5 , 10 , Intel Rapid Storage 3.0 , Intel Smart Response Technolog , NCQ, AHCI and "Hot Plug" functions - ASMedia ASM1061: 2 x SATA3 6.0 Gb/s , support NCQ, AHCI and "Hot Plug" functions
	SAS controller	- NA
Rear Panel I/O	PS/2 KB/mouse	-2
	VGA port USB 2.0 port	- D-sub x 1
	USB 3.0 port	- 2
	Lan port	- 2 x RJ45 Gigabit Ethernet LAN ports - LAN Ports with LED (ACT/LINK LED and SPEED LED)
Internal connector	COM port header	- 1 (COM1)
	Power LED header	- 1
	Chassis intrusion header	- 1
		- 1 (include chassis intrusion , front LAN LED)
	TPM header	-1
	Fan header ATX power	- 5 (2 x 4-pin , 3 x 3-pin) - 1 (24-pin) + 1 (8-pin)
	USB 2.0 header	- 3 (each support 2 USB 2.0)
	USB 3.0 header	- 1 (each support 2 USB 3.0)
	BIOS type	- 64Mb AMI UEFI Legal BIOS with GUI support
System BIOS	BIOS features	- Plug and Play (PnP) - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - DRAM Voltage Multi-adjustment - CPU Core, IGPU, DRAM, 1.8V PLL, VTT, VCCSA Voltage Multi-adjustment
Hardware Monitor	Temperature	- CPU Temperature Sensing - System Temperature Sensing
	Fan	- CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU/Rear/Front Fan Multi-Speed Control
	Voltage	- Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
Support OS	os	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit and Microsoft® Windows® Server 2008 R2 64-bit
	Key features	- Single Socket H2 (LGA1155) Supports 3rd and 2rd Generation Intel® Core™ i7 / i5 / i3 and Pentium® / Celeron® and Intel® Xeon® E3-1200 & v2 Series Processors in LGA1155 Package - Intel® H77chipset - Support up to 32GB DDR3 UDIMM 4 DIMM sockets - Realtek RTL8111E 2-port GbE LAN - 2 SATA3 (6Gbps), 4 SATA2 (3Gbps) & 2 ASMedia SATA3 (6Gbps) - 4 USB 3.0 ports (2 x rear , 2 x via header) & 10 USB 2.0 ports (4 x rear , 6 x via header)
Features	Unique features* *Note: ASRock unique features are supported with client OS.	- ASRock Extreme Tuning Utility (AXTU) - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger - ASRock SpartView - ASRock SFast USB - ASRock XFast USB - ASRock XFast LAN - ASRock XFast BAM - ASRock Crashless BIOS - Hybrid Booster: - ASRock U-COP - Boot Failure Guard (B.F.G.) - Combo Cooler Option (C.C.C.)
tradamarka of their reas		configuration other than original product specification is not guaranteed.



Board Diagram

