

IPMSB

Motherboard layout reference

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System stability is not guaranteed if voltages are set beyond the defaults.

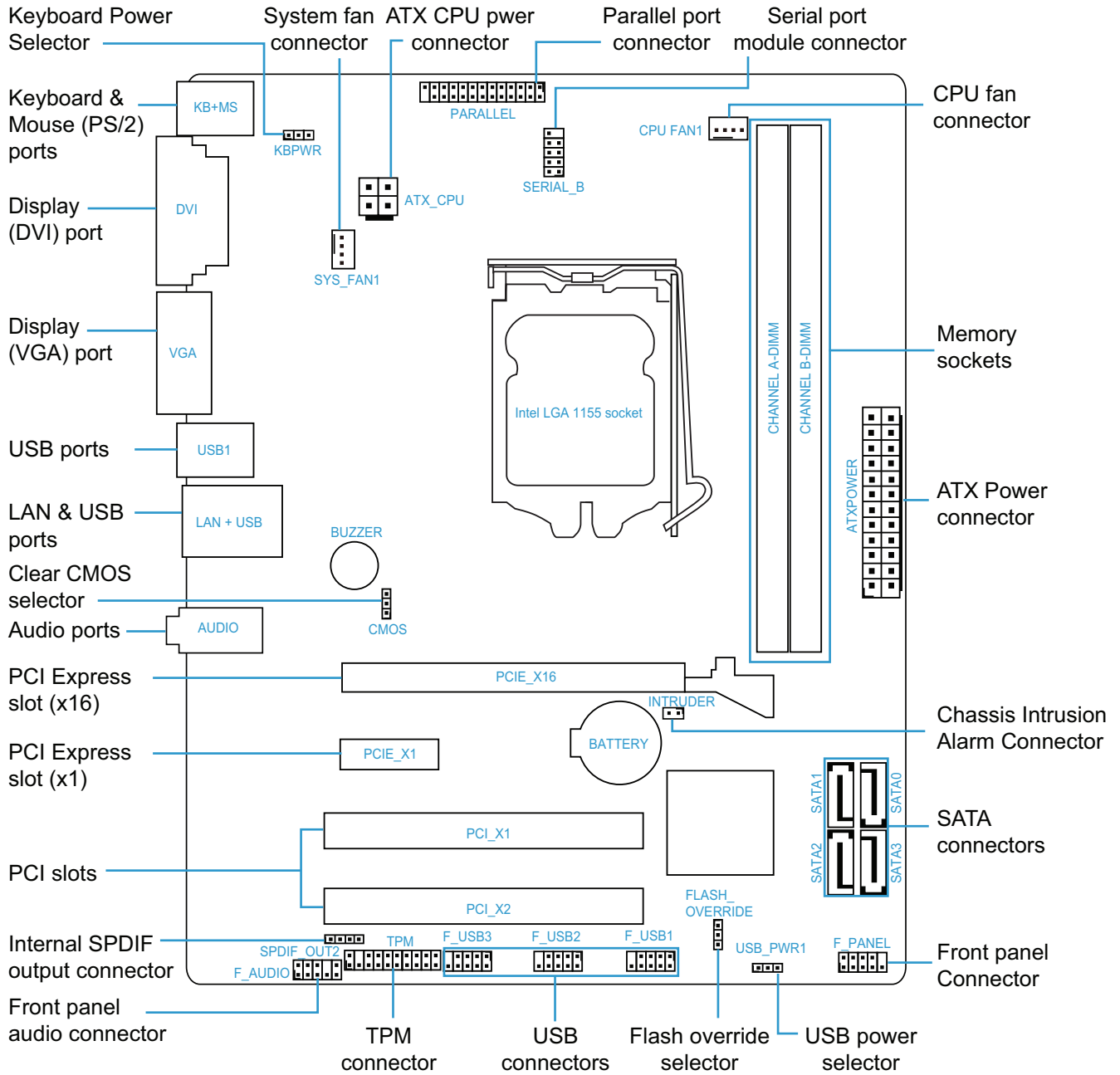


This manual is meant as a general reference guide. Refer to the product itself for actual specifications.

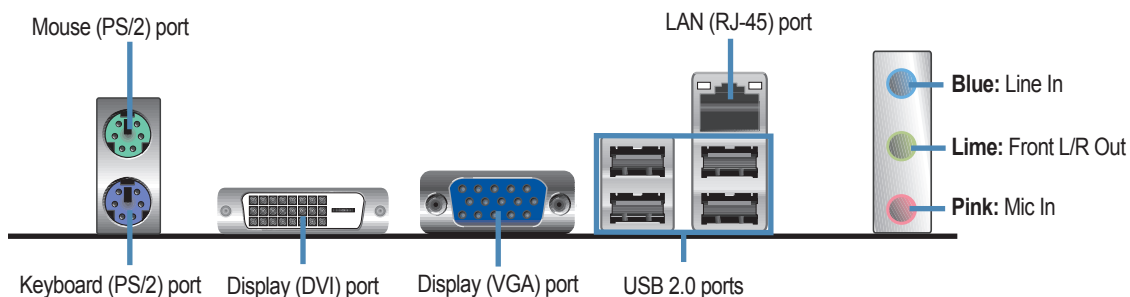
Specifications summary

CPU	Socket : Intel Socket 1155 Supports : Sandy Bridge TDP : 95/ 65W
Chipset	North Bridge : Intel Cougar Point (H61)
Memory	Dual Channel, 2 x DDR3 slots, Non-ECC, Unbuffered, Max. 8GB Types : 1066/PC3-8500, 1333/PC3-10600
Expansion slots	1x PCI Express slot (x16) 1x PCI Express slot (x1) 2x PCI slots
Audio	Realtek ALC662 co-lay ALC888S (6-channel)
LAN	Gigabit Realtek RTL8111EL
Graphics	Integrated Graphics in Sandy Bridge
Storage	INTEL Cougar Point (H61) built-in: 4x SATA 300
USB	10x USB 2.0 ports, 12/480Mbps
Rear panel I/O ports	1x Mouse (PS/2) port + 1x Keyboard (PS/2) port 1x Display (DVI) port 1x Display (VGA) port 2x USB2.0 ports 1x LAN (RJ-45) port + 2x USB2.0 ports 3x Audio jacks (6-channel)
Internal connectors	1x ATX power connector 1x ATX CPU connector 1x CPU fan connector 1x System fan connector 4x SATA connectors 1x Front panel audio connector 1x Internal SPDIF output connector 3x USB 2.0 connectors 1x Serial port module connector 1x Parallel port connector 1x Chassis intrusion alarm connector 1x TPM (Trusted Platform Module) connector 1x Front panel connector
BIOS	SPI 32Mb (AMI)
Form factor	µATX, 9.6 inches x 7.6 inches


Motherboard layout



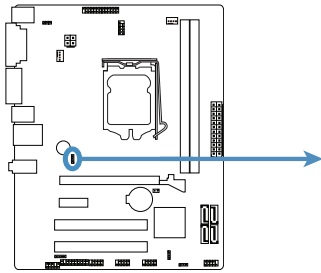
Rear panel connectors



LAN port LED indications

Left (ACTIVITY)	LAN port	Right (LINK)
Orange : Activity		Orange : 1G Link
Off : No activity		Green : 100M Link
		Off : 10M Link

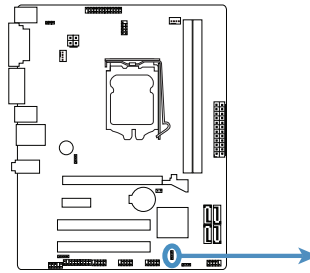
Function Selectors



CLEAR CMOS

3	<input type="checkbox"/>	3	<input type="checkbox"/>
2	<input type="checkbox"/>	2	<input type="checkbox"/>
1	<input type="checkbox"/>	1	<input type="checkbox"/>
	Normal (Default)		Clear CMOS

CLEAR CMOS SELECTOR

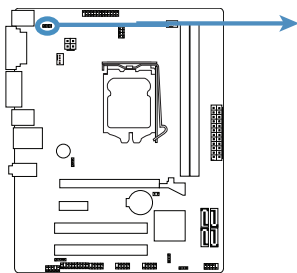


FLASH_OVERRIDE

1	<input type="checkbox"/>	1	<input type="checkbox"/>
2	<input type="checkbox"/>	2	<input type="checkbox"/>
3	<input type="checkbox"/>	3	<input type="checkbox"/>
	Enable (Default)		Disable

FLASH OVERRIDE
(Intel Management Engine) SELECTOR

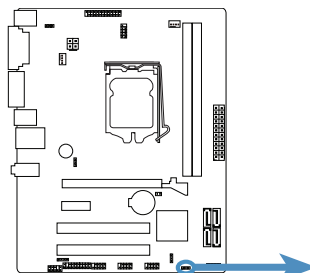
- To erase the CMOS RTC RAM user settings:**
1. Turn OFF the computer and unplug the power cord.
 2. Move the cap to clear for 5 to 10 secs, then move cap back to default.
 3. Plug the power cord and turn ON the computer.
 4. During the boot process, enter BIOS setup to re-enter user settings.



KBPWR

1	2	3	1	2	3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		+5VA (Default)			+5V

KEYBOARD & MOUSE POWER SELECTOR

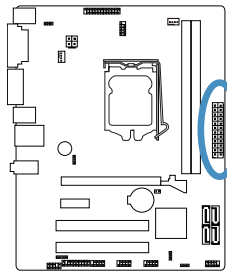


USB_POWER1

3	2	1	3	2	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		+5VA (Default)			+5V

USB POWER SELECTOR

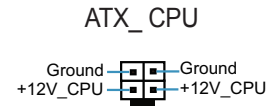
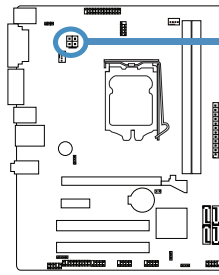
Internal connectors



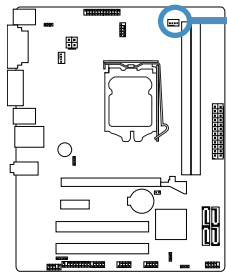
ATXPOWER

(+)3.3 Volts	Ground
(+12 Volts	(+5 Volts
(+12 Volts	(+5 Volts
(+5V Standby	(+5 Volts
Power OK	(-)5 Volts
Ground	Ground
(+5 Volts	Ground
Ground	Ground
(+5 Volts	PSON#
Ground	Ground
(+3 Volts	(-)12 Volts
(+3 Volts	(+3 Volts

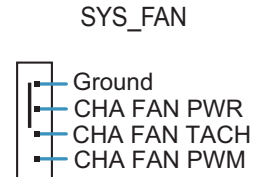
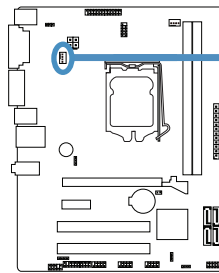
ATX POWER CONNECTOR



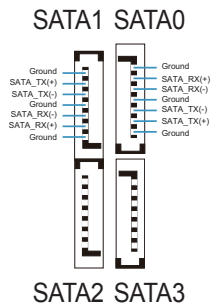
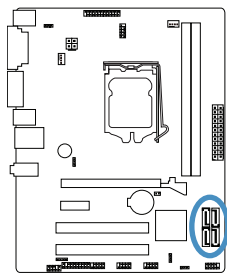
ATX CPU CONNECTOR



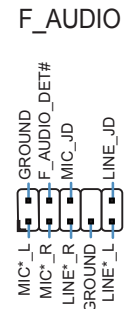
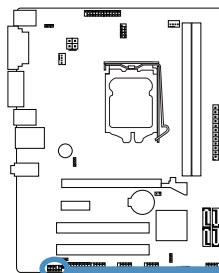
CPU FAN CONNECTOR



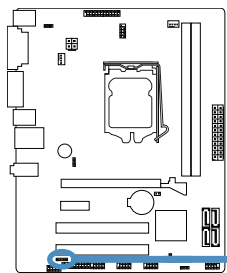
SYSTEM FAN CONNECTOR



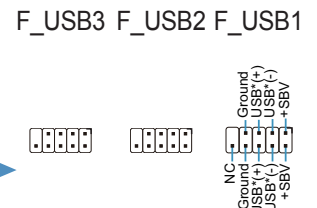
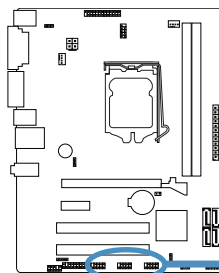
SATA CONNECTORS



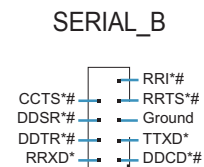
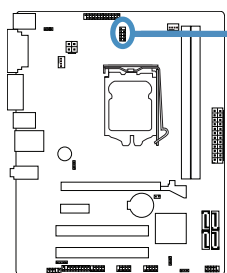
FRONT PANEL AUDIO CONNECTOR



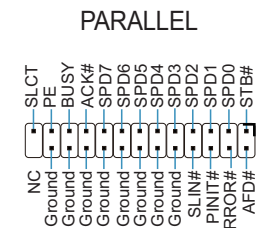
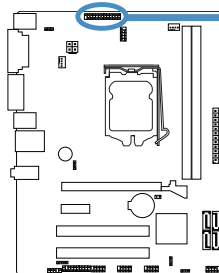
INTERNAL SPDIF OUTPUT CONNECTOR



USB CONNECTORS

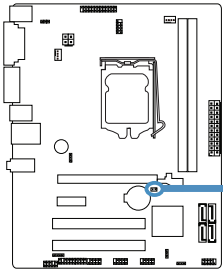


INTERNAL SERIAL PORT CONNECTOR



PARALLEL PORT CONNECTOR

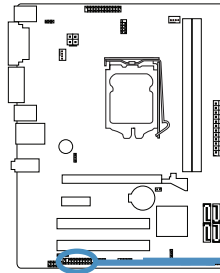
Internal connectors (cont'd)



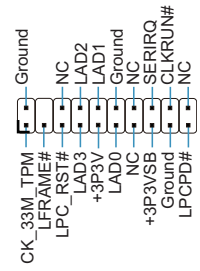
INTRUDER



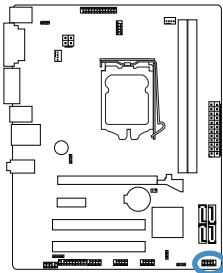
CHASSIS INTRUSION ALARM CONNECTOR



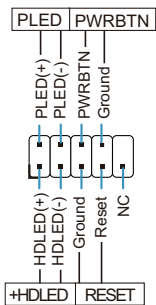
TPM



TPM (Trusted Platform Module) CONNECTOR



F_PANEL



FRONT PANEL CONNECTOR