

SIMB-A31 Series

Motherboard layout reference

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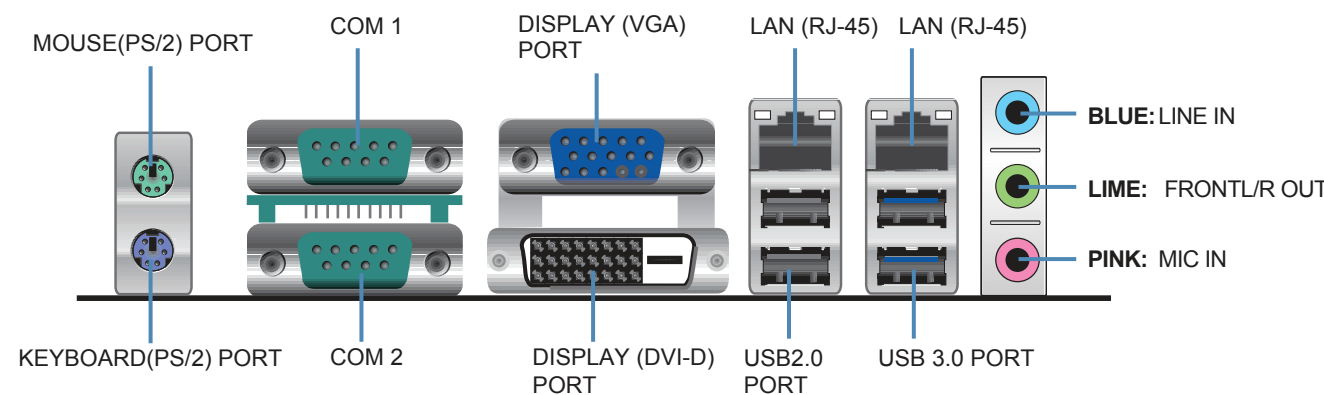
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Specifications summary

(Different SKUs will have different components mounted.)

CPU Socket	Intel Socket LGA1150
Chipset	Intel PCH H81
Memory	Dual-channel, 2Slots, Non-ECC, Unbuffered, 240 pin DDR3, Max. up to 16GB for all. Types: 1066/PC3-8500, 1333/PC3-10600, 1600/PC3-12800
Expansion slots	1x PCI Express slot (x16) 2x PCI Express slot (x1) 3x PCI slot 1x Mini-PCIe
LAN	Realtek LAN 1: RTL8111G-CG Realtek LAN 2: RTL8111G-CG
Storage	1x SATAII 2x SATAIII
Audio	REALTEK/ALC662
USB	7x USB 2.0 2x USB 3.0
Alarm device	Buzzer
Rear panel I/O ports	1x PS2/Keyboard+1x PS2/Mouse 2x COM port 1x DVI port+ 1xVGA port Stack 1x RJ45 LAN port + dual USB2.0 1x RJ45 LAN port + dual USB3.0 3x Audio jacks (5.1ch)
Internal connectors	1x ATX Power Connector (24 pin) 1x ATX CPU Power Connector (4 pin) 1x CPU FAN (4 pin-PWM) 2x System FAN (4 pin-PWM) 1x Front panel (3x4 pin) 1x Front audio(2x5 pin) 1x Keyboard/Mouse Header 1x SPI Connector 1x SPDIF OUT 1x LAN LED 2x SATA Power Connectors 1x SATA II Connector 2x SATA III Connectors 3x Front USB 1x VOLT Connector 1x LPT header 1x COM header (2x20 pin)(support 4 com RS-232) 1x SMBUS Connector 1x GPIO Connector (8bit) 1x SIM Card Socket 1x MiniPCIe connector (support MiniPCIe & mSATA)
BIOS	AMI 64Mb
Form Factor	ATX Form Factor 12" * 8.0" mm, max 4 Layers

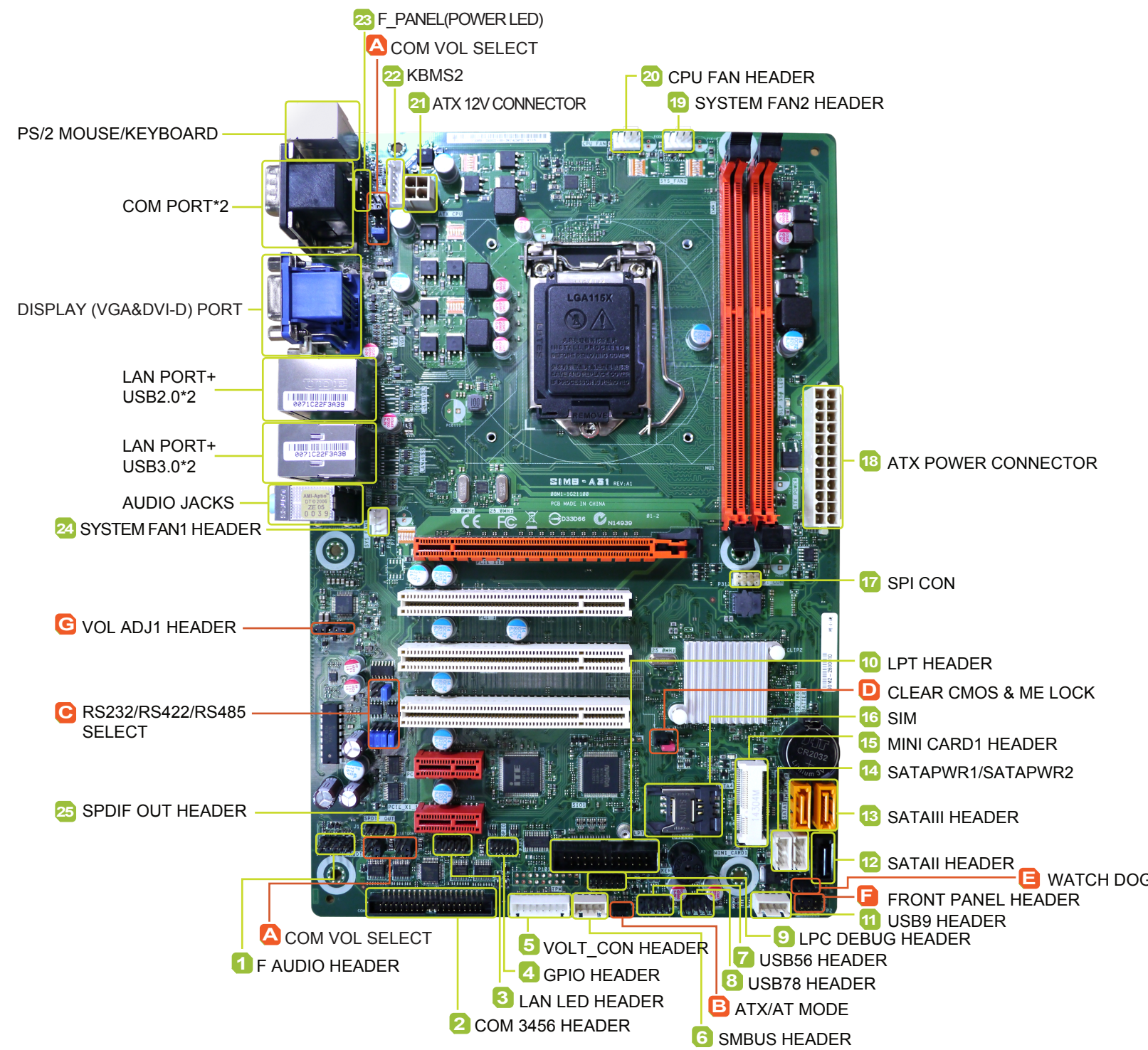
Rear panel connectors



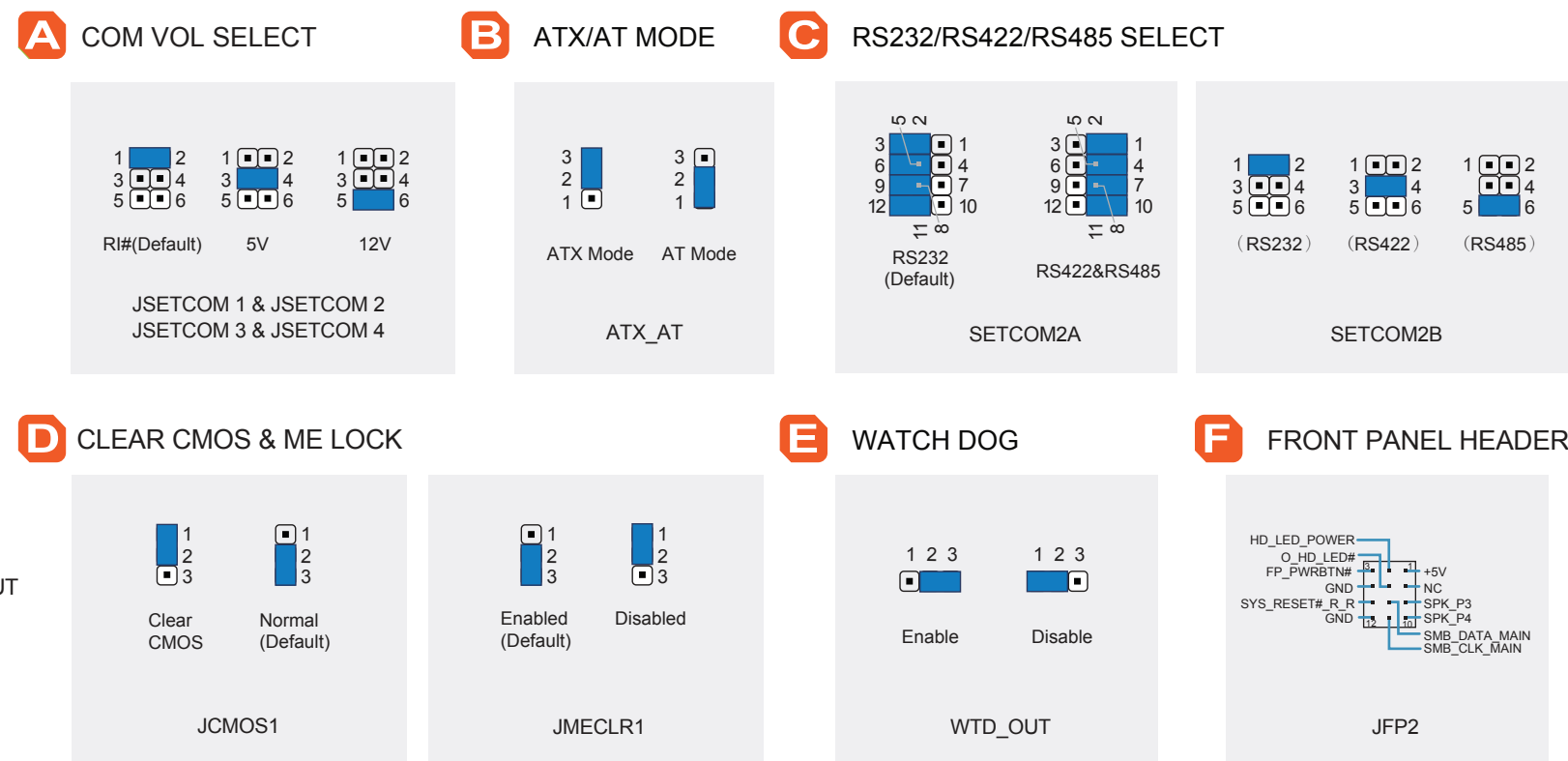
LAN port LED indicators

Left LED	Right (LINK)
Green : 1G Link	Off : No Link
Orange : 100M Link	Green : Link
Off : 10M Link	Flash : Data activity

Motherboard layout

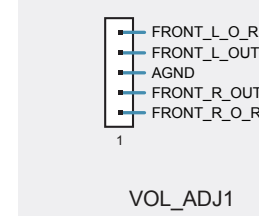


Function Selectors



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.

G VOL ADJ1 HEADER



Internal connectors

