



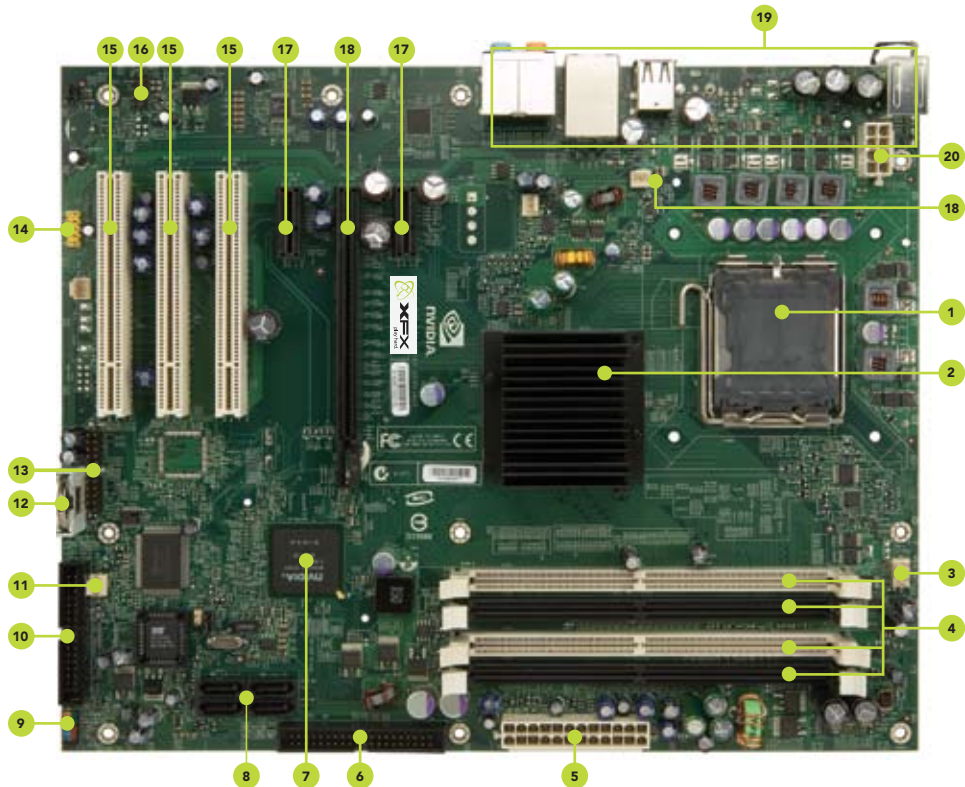
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MOTHERBOARD

Quick Install Guide

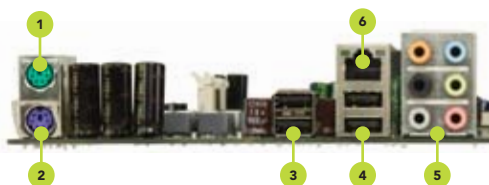
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MOTHERBOARD

- | | | |
|--------------------------------------|----------------------------|-----------------------------------|
| 1. CPU Socket | 8. Serial-ATA connectors | 15. PCI slots |
| 2. NVIDIA SPP with passive heat sink | 9. Front panel connector | 16. Front Panel Audio connector |
| 3. CPU fan connector | 10. Floppy drive connector | 17. PCI Express x1 slot |
| 4. DDR DIMM Slots 0 - 3 | 11. System fan connector | 18. PCI Express x16 slot |
| 5. 24-pin ATX Power Connector | 12. Motherboard battery | 19. Back panel connectors |
| 6. IDE connector | 13. USB headers | 20. 8-pin ATX_12V power connector |
| 7. NVIDIA MCP | 14. Serial connector | |

REAR PANEL



- | | |
|--|--|
| 1. PS/2 Mouse Port | 5. Audio Configuration |
| 2. PS/2 Keyboard | Port 2-Channel 4-Channel 6 or 8-Channel |
| 3. USB 2.0 Ports (two) | Blue Line-In Line-In Line-In |
| 4. USB 2.0 ports (two) | Green Line-Out Front Speaker Out Front Speaker Out |
| 5. Audio | Pink Mic In Mic In Mic In |
| 6. LAN Port with LED status indicators | Orange Center/Subwoofer |
| | Black Rear Speaker Out Rear Speaker Out |
- Yellow/Light Up/Blink = 10 Mbps/Link/Activity
 - Yellow and Green/Light Up/Blink = 100 Mbps/link/Activity
 - Green/Light Up/Blink = 1000 Mbps/Link/Activity

DIMM SLOTS

Memory Configuration



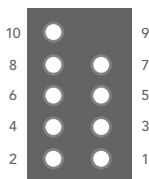
| | Configuration | DIMM0 | DIMM1 | DIMM2 | DIMM3 |
|----------------|---------------|-----------|-----------|-----------|-----------|
| Single Channel | 1 | Populated | | | |
| | 2 | | Populated | | |
| | 3 | | | Populated | |
| | 4 | | | | Populated |
| Dual Channel | 5 | Populated | Populated | | |
| | 6 | | | Populated | Populated |
| | 7 | Populated | Populated | Populated | Populated |

Front Panel Header Pins



| LABEL | PIN | DESCRIPTION |
|---------------|-----|------------------------|
| HD_LED | 1 | Hard Disk Activity LED |
| | 2 | |
| PWRLD | 3 | Front Panel Power LED |
| | 4 | |
| RESET | 5 | Reset Switch |
| | 6 | |
| PWRSW | 7 | Power Switch |
| | 8 | |
| No Connection | 9 | |
| Empty | 10 | |

USB Header



| PIN | SIGNAL | PIN | SIGNAL |
|-----|---------|-----|------------|
| 1 | 5V_Dual | 2 | 5V_Dual |
| 3 | D- | 4 | D- |
| 5 | D+ | 6 | D+ |
| 7 | GND | 8 | GND |
| 9 | Empty | 10 | No Connect |

INSTALLING THE CPU

Refer to page 12 of the manual in the motherboard installation CD for additional details.



- 1 Remove the protective socket cover on the load plate which is used to protect the socket when there is no CPU installed.
- 2 Unhook the socket lever by pushing *down* and away from the socket.



- 3 Lift the load plate.
- 4 Align the notches in the processor with the notches on the socket.
Align notches with notches on the CPU.



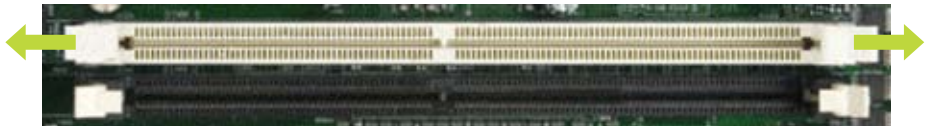
- 5 Lower the processor straight down into the socket without tilting or sliding it into the socket.
- 6 Close the load plate over the CPU and press down while you close and engage the socket lever.
- 7 There are many different fan types that can be used with this motherboard. Follow the instructions that came with your fan assembly. Be sure that the fan orientation is correct for your chassis type and your fan assembly.

INSTALLING MEMORY



Refer to page 13 of the manual in the motherboard installation CD for additional details.

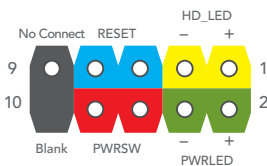
DIMM Slot



- 1 Unlock a DIMM slot by pressing the module clips outward.
- 2 Match the notch on the memory with the notch on the DIMM slot. Align the memory module to the DIMM slot, and insert the module vertically into the DIMM slot. The plastic clips at both sides of the DIMM slot automatically lock the DIMM into the connector.

CONNECTING FRONT PANEL HEADER

Refer to page 19 of the manual in the motherboard installation CD for additional details.



PWRLED – Front Panel Power LED
PWRSW – Power Switch

HD_LED – Hard Disk Activity LED
RESET – Reset Switch

Note: In general white and black wires are the negative leads (-) and the other colored wires are the positive (+) leads. LED will not work if the negative and positive leads are plugged in backwards.

CONNECTING DISK DRIVES

Refer to page 17 of the manual in the motherboard installation CD for additional details.

These connectors are for peripherals such as floppy drive, hard disk drives, and optical drives. (i.e. DVD-ROM, CD-ROMS, etc)

Note: Drive cables are designed to fit in these connectors in only one orientation.

Floppy Connectors



SATA Connectors

EIDE Connectors

POWER CONNECTION

Refer to page 16 of the manual in the motherboard installation CD for additional details.

This motherboard requires an ATX power supply.

Note: Power supply cables are design to fit the motherboard power connectors in only one orientation.

- For general motherboard setup, make sure the 24-pin ATX power connector, and the 8-pin 12V power connector are properly connected to the power supply.

24-pin ATX Power Connector (PWR1)



8-pin ATX 12V Power Connector (PWR2)



To set up Raid using NVIDIA MediaShield Storage, refer to the manual in the motherboard installation CD. (Page 82).

Please refer to the manufacture's installation manual when installing any devices (i.e. graphics boards, hard disk drives, optical drives, etc.) to the motherboard.