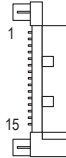
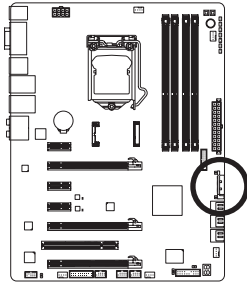


### 3) ATX4P1 (PCIe Power Connector)

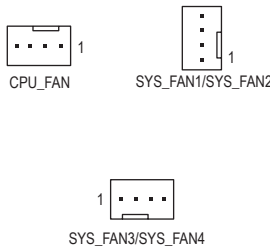
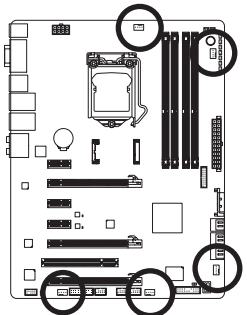
The power connector provide auxiliary power to the onboard PCI Express x16 slots. When two or more graphics cards are installed, we recommend that you connect the SATA power cable(s) from the power supply to the ATX4P1 connector to ensure system stability.



Pin No.	Definition
1	NC
2	NC
3	NC
4	GND
5	GND
6	GND
7	VCC
8	VCC
9	VCC
10	GND
11	GND
12	GND
13	+12V
14	+12V
15	+12V

### 4/5) CPU\_FAN/SYS\_FAN1/SYS\_FAN2/SYS\_FAN3/SYS\_FAN4 (Fan Headers)

All fan headers on this motherboard are 4-pin. Most fan headers possess a foolproof insertion design. When connecting a fan cable, be sure to connect it in the correct orientation (the black connector wire is the ground wire). The speed control function requires the use of a fan with fan speed control design. For optimum heat dissipation, it is recommended that a system fan be installed inside the chassis.



CPU\_FAN:

Pin No.	Definition
1	GND
2	+12V/Speed Control
3	Sense
4	Speed Control

SYS\_FAN1:

Pin No.	Definition
1	GND
2	Speed Control
3	Sense
4	Reserve

SYS\_FAN2/3:

Pin No.	Definition
1	GND
2	+12V
3	Sense
4	Speed Control

SYS\_FAN4:

Pin No.	Definition
1	GND
2	+12V
3	Sense
4	Reserve



- Be sure to connect fan cables to the fan headers to prevent your CPU and system from overheating. Overheating may result in damage to the CPU or the system may hang.
- These fan headers are not configuration jumper blocks. Do not place a jumper cap on the headers.

☞ **CPU Vcore/Dram Voltage/+3.3V/+12V**

Displays the current system voltages.

☞ **CPU/PCH/System Temperature**

Displays current CPU/Chipset/System temperature.

☞ **CPU/System FAN Speed**

Displays current CPU/system fan speeds.

☞ **CPU Warning Temperature**

Sets the warning threshold for CPU temperature. When CPU temperature exceeds the threshold, BIOS will emit warning sound. Options are: Disabled (default), 60°C/140°F, 70°C/158°F, 80°C/176°F, 90°C/194°F.

☞ **CPU/System Fan Fail Warning**

Allows the system to emit warning sound if the CPU fan or system fan are not connected or fail. Check the fan condition or fan connection when this occurs. (Default: Disabled)

☞ **CPU Fan Control mode**

▶▶ Auto Lets the BIOS automatically detect the type of CPU fan installed and sets the optimal CPU fan control mode. (Default)

▶▶ Voltage Sets Voltage mode for a 3-pin CPU fan.

▶▶ PWM Sets PWM mode for a 4-pin CPU fan.

Note: The Voltage mode can be set for a 3-pin CPU fan or a 4-pin CPU fan. However, for a 4-pin CPU fan that is not designed following Intel PWM fan specifications, selecting PWM mode may not effectively reduce the fan speed.

☞ **CPU Fan Speed Control**

Allows you to determine whether to enable the CPU fan speed control function and adjust the fan speed.

▶▶ Normal Allows the CPU fan to run at different speeds according to the CPU temperature. You can adjust the fan speed with EasyTune based on your system requirements. (Default)

▶▶ Silent Allows the CPU fan to run at slow speeds.

▶▶ Manual Allows you to control the CPU fan speed under the **Slope PWM** item.

▶▶ Disabled Allows the CPU fan to run at full speeds.

☞ **Slope PWM**

Allows you to control the CPU fan speed. This item is configurable only when **CPU Fan Speed Control** is set to **Manual**. Options are: 0.75 PWM value /°C ~ 2.50 PWM value /°C.

☞ **1st/2nd/3rd System Fan Speed Control (SYS\_FAN1, SYS\_FAN2 and SYS\_FAN3 Connectors)**

Allows you to determine whether to enable the system fan speed control function for the system fans connected to SYS\_FAN1, SYS\_FAN2 and SYS\_FAN3 connectors and adjust the fan speed.

▶▶ Normal Allows the system fan to run at different speeds according to the system temperature. You can adjust the fan speed with EasyTune based on your system requirements. (Default)

▶▶ Silent Allows the system fans to run at slow speeds.

▶▶ Manual Allows you to control the system fans speed under the **Slope PWM** item.

▶▶ Disabled Allows the system fans to run at full speeds.

☞ **Slope PWM**

Allows you to control the system fan speed. This item is configurable only when **1st/2nd/3rd System Fan Speed Control** is set to **Manual**. Options are: 0.75 PWM value /°C ~ 2.50 PWM value /°C.