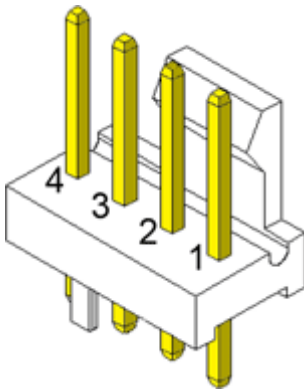


Motherboard (CPU) 4 Pin Fan

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📅 01 Mar 1998

4-Wire Pulse Width Modulation (PWM) Controlled Fans



Motherboard CPU Fan 4 Pin header Connector.

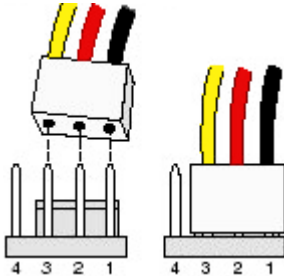
Pin	Name	Color
1	GND	black
2	+12VDC	yellow
3	Sense	green
4	Control	blue

For some AMD cpu fans:

Pin	Name	Color
1	GND	black
2	+12VDC	red
3	Sense	yellow
4	Control	blue

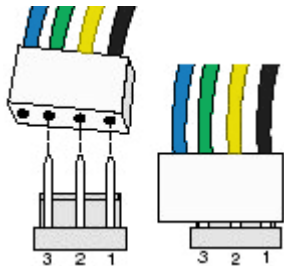
Notes

- Colors may change.
- Chassis and CPU fans may use either 3-pin or 4-pin power connectors. 3-pin connectors are usually used for the smaller chassis fans with lower power consumption. 4-pin connectors are usually used by CPU fans with higher power consumption. Fans and on-board fan headers are backwards compatible. Proper fan connector placement is shown in the figures below:
 - Fan has a 3-pin power connector; desktop board has a 4-pin fan header:



Note: when using a 3-pin power connector with a 4-pin fan header, the fan will always be on; there is no fan control.

- Fan has a 4-pin power connector; desktop board has a 3-pin fan header:



References

- Desktop Boards 3-Pin and 4-Pin Fan Connectors
- 4-Wire Pulse Width Modulation (PWM) Controlled Fans

Category:Motherboards Connectors

◀ Motherboard AT Backup Battery

Motherboard (CPU) 3 Pin Fan Connector ▶
