

**For information about**

Power supply considerations

**Refer to**

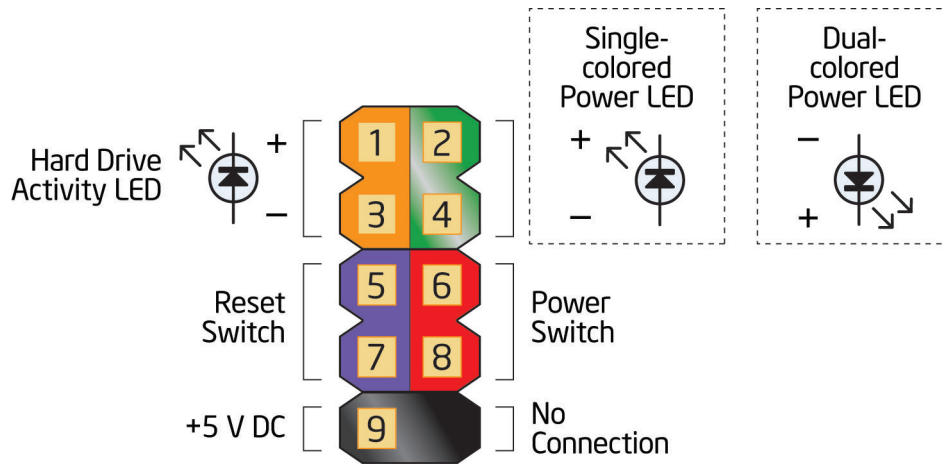
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**2.2.3.4 Front Panel Header**

This section describes the functions of the front panel header. Table 34 lists the signal names of the front panel header. Figure 15 is a connection diagram for the front panel header.

**Table 34. Front Panel Header**

Pin	Signal Name	Description	Pin	Signal Name	Description
1	HDD_POWER_LED	Pull-up resistor (750 Ω) to +5V	2	POWER_LED_MAIN	[Out] Front panel LED (main color)
3	HDD_LED#	[Out] Hard disk activity LED	4	POWER_LED_ALT	[Out] Front panel LED (alt color)
5	GROUND	Ground	6	POWER_SWITCH#	[In] Power switch
7	RESET_SWITCH#	[In] Reset switch	8	GROUND	Ground
9	+5V_DC	Power	10	Key	No pin



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**Figure 15. Connection Diagram for Front Panel Header**

**2.2.3.4.1 Hard Drive Activity LED Header**

Pins 1 and 3 can be connected to an LED to provide a visual indicator that data is being read from or written to a hard drive. Proper LED function requires a SATA hard drive or optical drive connected to an onboard SATA connector.

#### 2.2.3.4.2 Reset Switch Header

Pins 5 and 7 can be connected to a momentary single pole, single throw (SPST) type switch that is normally open. When the switch is closed, the board resets and runs the POST.

#### 2.2.3.4.3 Power/Sleep LED Header

Pins 2 and 4 can be connected to a one- or two-color LED. Table 35 shows the possible LED states.

**Table 35. States for a One-Color Power LED**

LED State	Description
Off	Power off
Blinking	Standby
Steady	Normal operation



#### **NOTE**

*The LED behavior shown in Table 35 is default – other patterns may be set via BIOS setup.*

#### 2.2.3.4.4 Power Switch Header

Pins 6 and 8 can be connected to a front panel momentary-contact power switch. The switch must pull the SW\_ON# pin to ground for at least 50 ms to signal the switch on or off. (The time requirement is due to internal debounce circuitry on the board.) At least two seconds must pass before the board will recognize another on/off signal.