Flashforge Guider II Pin Outs

The following pin outs are correct to the best of m*y* knowledge and is reflective of m*y* particular Guider II. That said, while it should appl*y* to all printers of the same model, exercise caution and double check. This should provide a good starting point.

A few notes…

1) The extruder temperature prode is a 3mm threaded type K 2-wire thermocouple. What the SKR boards are looking for is an input from a thermistor. If ou don't know the difference, that's fine, neither did I. While there are wa*y*s to make a thermocouple work, it adds parts and complexit*y. The simplest solution would be to find and buy a two wire 3mm threaded* thermistor. The*y* can be found on Amazon for about $10 and will directl*yplug in to the extruder board.*

2) The filament run out sensor is not directly compatible with the BTT SKR boards and will require some modification. The PCB/connector will need to be rewired so that it makes or breaks the connection between Signal and Ground pins. The +5vDC line is unnecessary and can be completely omitted.

Control Board

(The large PCB behind the right cover of the printer)

The following pin outs are as if viewing the control board in its mounted position in the printer...

X, Y, and Z end stops: (the 3 black JST XH connectors on the top left)

from top to bottom...
Pin 1: +5VDC
Pin 2: Gnd
Pin 3: Gnd
Pin 4: Signal

SLIK aka the Filament Run out Sensor (small white JST?? connector on bottom left)

from top to bottom...
Pin 1: +5VDC
Pin 2: Signal
Pin 3: Gnd

LED

from left to right…
Pin 1: +5VDC
Pin 2: Gnd

Btemp aka Bed Temp (small white JST?? connector bottom right)

This is a thermistor input from the bed…
from left to right…
Pin 1: Gnd
Pin 2: Signal

Breakout Board

(The little PCB that the extruder to which the ribbon cable connects)

The following connectors/pins are as if you are looking at the board as it is mounted in the extruder assembly (ie, with the ribbon connector on the left).

Extruder Stepper

from left to right…
Pin 1: Enable
Pin 2: Step
Pin 3: Direction
Pin 4: UART

Heat Break Fan *(This fan runs as long as the block heater is active)*

From left to right…
Pin 1: +24VDC
Pin 2: Gnd

Parts Cooling Fan (*This fan is the one that blows down on to the bed)*

from left to right...
Pin 1: Tachometer (NOT USED)
Pin 2: +24VDC
Pin 3: Gnd

Servo *(This controls the little arm that raises and lowers the bed leveling probe)*

from left to right…
Pin 1: Gnd
Pin 2: Signal
Pin 3: +5vdc

Hot End Temp Probe

On stock Guider II, this is a type K thermocouple which will not work with SKR style boards without modification (see main document). Easiest and cheapest solution is to replace with a 3mm threaded 2 wire thermistor.

from left to right...
Pin 1: Signal
Pin 2: Gnd

Block Heater *(terminal block)*

from top to bottom...
Pin 1: Gnd
Pin 2: +24VDC

Bed Leveling Switch

from top to bottom...
Pin 1: Signal
Pin 2: Gnd