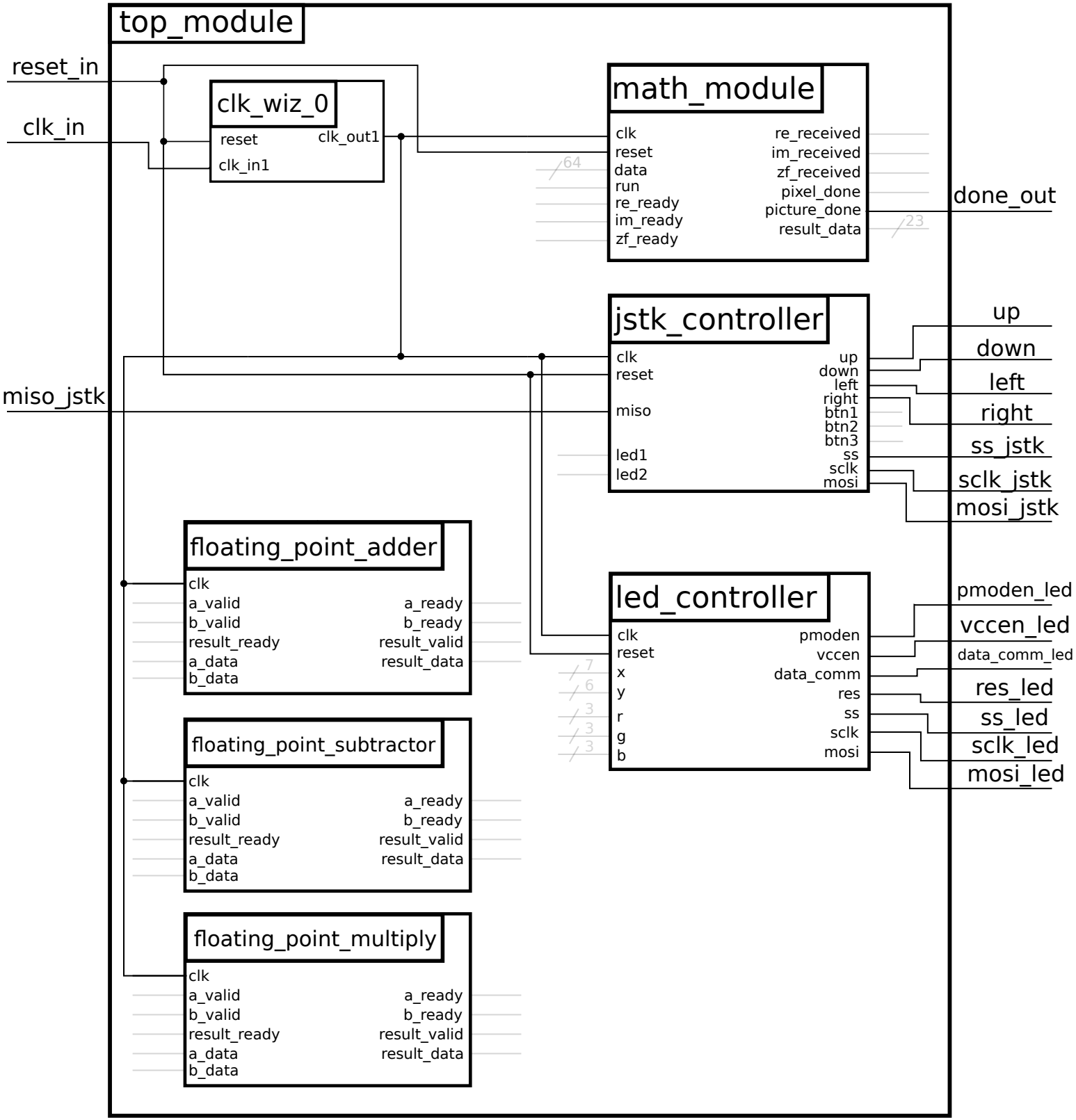
top_module
reset_in
clk_in
clk_wiz_0
reset
clk_in1
clk_out1
math_module
clk
reset
data
run
re_ready
im_ready
zf_ready
re_received
im_received
zf_received
pixel_done
picture_done
result_data
64
23
done_out
jstk_controller
clk
reset
miso
led1
led2
up
down
left
right
btn1
btn2
btn3
ss
sclk
mosi
miso_jstk
up
down
left
right
ss_jstk
sclk_jstk
mosi_jstk
floating_point_adder
clk
a_valid
b_valid
result_ready
a_data
b_data
a_ready
b_ready
result_valid
result_data
floating_point_subtractor
clk
a_valid
b_valid
result_ready
a_data
b_data
a_ready
b_ready
result_valid
result_data
floating_point_multiply
clk
a_valid
b_valid
result_ready
a_data
b_data
a_ready
b_ready
result_valid
result_data
led_controller
clk
reset
x
y
r
g
b
pmoden
vccen
data_comm
res
ss
sclk
mosi
7
6
3
3
3
pmoden_led
vccen_led
data_comm_led
res_led
ss_led
sclk_led
mosi_led