

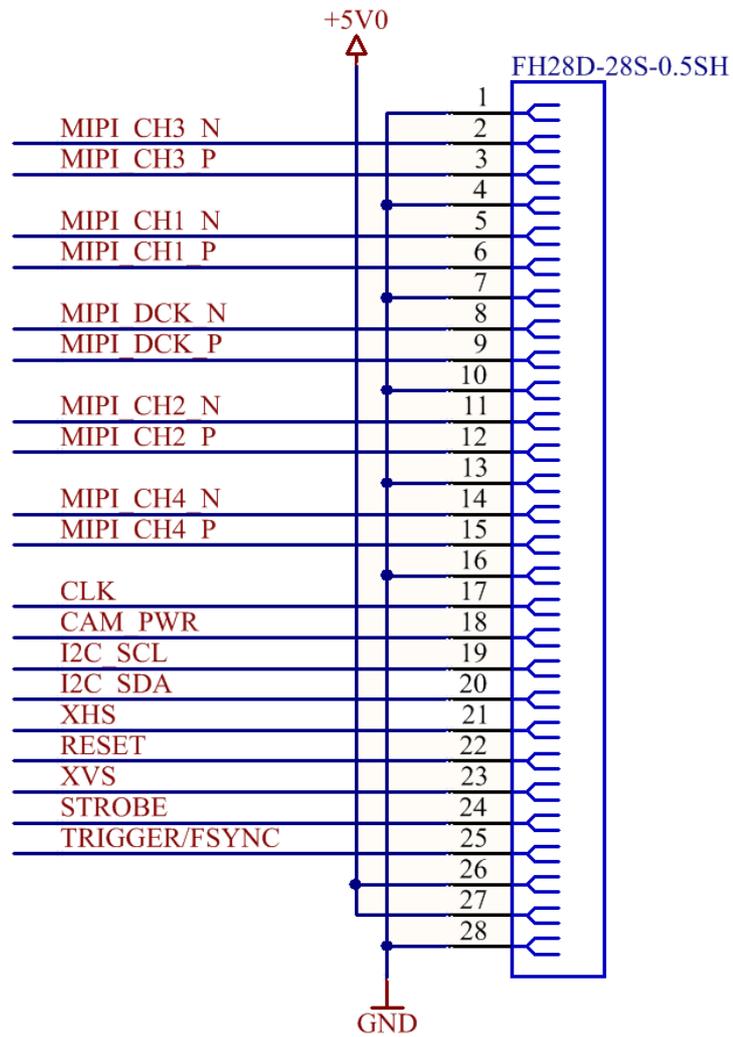


Technical Details

MIPI Sensor Board Connector



1 Schematic of the Sensor Board Connector





2 Pin Descriptions

#	Name	Type	Description
1	GND	GND	Ground
2	MIPI_CH3_N	O	MIPI CSI-2 output
3	MIPI_CH3_P	O	MIPI CSI-2 output
4	GND	GND	Ground
5	MIPI_CH1_N	O	MIPI CSI-2 output
6	MIPI_CH1_P	O	MIPI CSI-2 output
7	GND	GND	Ground
8	MIPI_DCK_N	O	MIPI CSI-2 output
9	MIPI_DCK_P	O	MIPI CSI-2 output
10	GND	GND	Ground
11	MIPI_CH2_N	O	MIPI CSI-2 output
12	MIPI_CH2_P	O	MIPI CSI-2 output
13	GND	GND	Ground
14	MIPI_CH4_N	O	MIPI CSI-2 output
15	MIPI_CH4_P	O	MIPI CSI-2 output
16	GND	GND	Ground
17	CLK	I	Reference clock input (with 1k pull-down/termination resistor on sensor board)
18	CAM_PWR	I	High active camera power enable signal (10k pull-down on sensor board)
19	I2C_SCL	I/O	I2C serial clock
20	I2C_SDA	I/O	I2C serial data
21	XHS	I	Horizontal sync signal (4.7k pull-down on sensor board) (*)
22	RESET	I	Reset sensor to default state when low (2.2k pull-down on sensor board)
23	XVS	I	Vertical sync signal (4.7k pull-down on sensor board) (*)
24	STROBE	O	Strobe output (*)
25	TRIGGER/FSYNC	I	Trigger input or FSYNC (10k pulldown on sensor board) (*)
26	+5V_VDD	PWR	5V ($\pm 10\%$) power supply



#	Name	Type	Description
27	+5V_VDD	PWR	5V ($\pm 10\%$) power supply
28	GND	GND	Ground

All I/Os have the same I/O voltage of 1.8V. The manufacturer part number of the Hirose connector is FH28D-28S-0.5SH(98).

(*): Not available for all sensor boards.



MIPI Sensor Board Connector

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All weights and dimensions are approximate. Unless otherwise specified, the lenses shown in the context of cameras are not shipped with these cameras.

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