IO MODULE WEST B2B

B2B Left Pin	IO	Voltage	B2B Right Pin	IO	Voltage
1	HDMI_SPDIF	3.3V	2	GND	GND
3	HDMI_SD3_DR2	3.3V	4	MIPI_D3_N	1.2V
5	HDMI_SD2_DL1	3.3V	6	MIPI_D3_P	1.2V
7	HDMI_SD1_DR1	3.3V	8	GND	GND
9	HDMI_SD0_DL0	3.3V	10	MIPI_D2_N	1.2V
11	HDMI_WS_DR0	3.3V	12	MIPI_D2_P	1.2V
13	HDMI_SCK	3.3V	14	GND	GND
15	HDMI_MCLK	3.3V	16	MIPI_CLK_N	1.2V
17	FPGA_I2C_SDA	3.3V	18	MIPI_CLK_P	1.2V
19	FPGA_I2C_SCL	3.3V	20	GND	GND
21	GND	GND	22	MIPI_D1_N	1.2V
23	HDMI_INT	3.3V	24	MIPI_D1_P	1.2V
25	HDMI_RST	3.3V	26	GND	GND
27	HDMI_DB0	3.3V	28	MIPI_D0_N	1.2V
29	HDMI_DB1	3.3V	30	MIPI_D0_P	1.2V
31	HDMI_DB2	3.3V	32	GND	GND
33	HDMI_DB3	3.3V	34	GND	GND
35	HDMI_DB4	3.3V	36	HDMI_IDCLK	3.3V
37	HDMI_DB5	3.3V	38	HDMI_VSYNC	3.3V
39	HDMI_DB6	3.3V	40	HDMI_HSYNC	3.3V
41	HDMI_DB7	3.3V	42	HDMI_DE	3.3V
43	HDMI_DG0	3.3V	44	HDMI_DR0	3.3V
45	HDMI_DG1	3.3V	46	HDMI_DR1	3.3V
47	HDMI_DG2	3.3V	48	HDMI_DR2	3.3V
49	HDMI_DG3	3.3V	50	HDMI_DR3	3.3V
51	HDMI_DG4	3.3V	52	HDMI_DR4	3.3V
53	HDMI_DG5	3.3V	54	HDMI_DR5	3.3V
55	HDMI_DG6	3.3V	56	HDMI_DR6	3.3V
57	HDMI_DG7	3.3V	58	HDMI_DR7	3.3V
59	GND	GND	60	GND	GND

IO MODULE EAST B2B

B2B Left Pin	IO	Voltage	B2B Right Pin	IO	Voltage
1	JTAG_TCK	1.8V	2	CAM_PWR_EN	3.3V
3	JTAG_TDI	1.8V	4	CAM_LED_EN	3.3V
5	JTAG_TDO	1.8V	6	GND	GND
7	JTAG_TMS	1.8V	8	USB_SYS_DP	NA
9	UART_RX	3.3V	10	USB_SYS_DN	NA
11	UART_TX	3.3V	12	GND	GND
13	FIFO_D0	1.8V	14	GND	GND
15	FIFO_D1	1.8V	16	MBUS_D11	1.8V
17	FIFO_D2	1.8V	18	MBUS_D10	1.8V
19	FIFO_D3	1.8V	20	MBUS_D9	1.8V
21	FIFO_D4	1.8V	22	MBUS_D8	1.8V
23	FIFO_D5	1.8V	24	MBUS_D7	1.8V
25	FIFO_D6	1.8V	26	MBUS_D6	1.8V
27	FIFO_D7	1.8V	28	MBUS_D5	1.8V
29	FIFO_CLK	1.8V	30	MBUS_D4	1.8V
31	FIFO_D8	1.8V	32	MBUS_D3	1.8V
33	FIFO_D9	1.8V	34	MBUS_D2	1.8V
35	FIFO_D10	1.8V	36	MBUS_D1	1.8V
37	FIFO_D11	1.8V	38	MBUS_D0	1.8V
39	FT600_TXE	1.8V	40	GND	GND
41	FT600_RXE	1.8V	42	FIFO_BE1	1.8V
43	FT600_WR	1.8V	44	FIFO_BE0	1.8V
45	FT600_RD	1.8V	46	FIFO_D15	1.8V
47	FT600_DE	1.8V	48	FIFO_D14	1.8V
49	FT600_RST	1.8V	50	FIFO_D13	1.8V
51	FT600_WAKEUP	1.8V	52	FIFO_D12	1.8V
53	GND	GND	54	GND	GND
55	GND	GND	56	GND	GND
57	PP_VUSB	15V	58	PP_VUSB	15V
59	PP_VUSB	15V	60	PP_VUSB	15V

Pin Totals

3.3V	1.8V	1.2V	15V
44	42	10	4

NOTE: LVL SHIFTER USED FOR 3V3->1V8

IO Module MCU Pinouts

MCU PIN	GPIO	Signal Name	Signal Voltage	IO Standard	Default/Pull Value
2	0	UNUSED	NA	NA	0
3	1	VBUS_ISNS_ALRT	3.3V	INPUT	1
4	2	CAM_PWR_EN	3.3V	OUTPUT	0
5	3	CAM_LED_EN	3.3V	OUTPUT	0
6	4	I2C0_SDA	3.3V	I2C - 100Khz	1
7	5	I2C0_SCL	3.3V	I2C - 100Khz	1
8	6	I2C1_SDA	3.3V	I2C - 100Khz	1
9	7	I2C1_SCL	3.3V	I2C - 100Khz	1
11	8	MIPI_RST_R	3.3V	OUTPUT	0
12	9	USBPD_SINK_EN	3.3V	INPUT	1
13	10	USBPD_CAP_MIS	3.3V	INPUT	1
14	11	USBPD_PLG_EVNT	3.3V	INPUT	1
15	12	USBPD_FLT_IN	3.3V	INPUT	1
16	13	USBPD_PLG_FLIP	3.3V	INPUT	1
17	14	USBPD_DBG_ACC	3.3V	INPUT	1
18	15	UNUSED	NA	NA	0
27	16	UNUSED	NA	NA	0
28	17	MBUS_D0	3.3V	OUTPUT	0
29	18	MBUS_D1	3.3V	OUTPUT	0
30	19	MBUS_D2	3.3V	OUTPUT	0
31	20	MBUS_D3	3.3V	OUTPUT	0
32	21	MBUS_D4	3.3V	OUTPUT	0
34	22	MBUS_D5	3.3V	OUTPUT	0
35	23	MBUS_D6	3.3V	OUTPUT	0
36	24	MBUS_D7	3.3V	OUTPUT	0
37	25	MCU_HB_LED	3.3V	OUTPUT	1
38	26	MBUS_D8	3.3V	OUTPUT	0
39	27	MBUS_D9	3.3V	OUTPUT	0
40	28	MBUS_D10	3.3V	OUTPUT	0
41	29	MBUS_D11	3.3V	OUTPUT	0

FPGA Module MCU Pinouts

MCU PIN	GPIO	Signal Name	Signal Voltage	IO Standard	Default/Pull Value
2	0	UNUSED	NA	NA	0
3	1	FPGA_MCU_M1	3.3V	OUTPUT	0
4	2	FPGA_MCU_M0	3.3V	OUTPUT	0
5	3	FPGA_MCU_M2	3.3V	OUTPUT	1
6	4	I2C0_SDA	3.3V	I2C - 100Khz	1
7	5	I2C0_SCL	3.3V	I2C - 100Khz	1
8	6	I2C1_SDA	3.3V	I2C - 100Khz	1
9	7	I2C1_SCL	3.3V	I2C - 100Khz	1
11	8	0V85_EN	3.3V	OUTPUT	0
12	9	0V85_ISNS_ALRT	3.3V	INPUT	1
13	10	1V2_ISNS_ALRT	3.3V	INPUT	1
14	11	UNUSED	NA	NA	0
15	12	1V8_ISNS_ALRT	3.3V	INPUT	1
16	13	FAN_PWM	3.3V	OUTPUT	0
17	14	3V3_ISNS_ALRT	3.3V	INPUT	1
18	15	1V2_EN	3.3V	OUTPUT	0
27	16	SYS_SPI_MISO	3.3V	SPI - 50MHz	0
28	17	SYS_SPI_CS	3.3V	SPI - 50MHz	0
29	18	SYS_SPI_SCK	3.3V	SPI - 50MHz	0
30	19	SYS_SPI_MOSI	3.3V	SPI - 50MHz	0
31	20	1V8_EN	3.3V	OUTPUT	0
32	21	UNUSED	NA	NA	0
34	22	3V3_EN	3.3V	OUTPUT	0
35	23	5V0_EN	3.3V	OUTPUT	0
36	24	UNUSED	NA	NA	0
37	25	MCU_HB_LED	3.3V	OUTPUT	1
38	26	UNUSED	NA	NA	0
39	27	UNUSED	NA	NA	0
40	28	UNUSED	NA	NA	0
41	29	UNUSED	NA	NA	0