

ACE HMST642-PM

Parallel to Mipi CSI-2 Bridge

60/50fps
FHD
1080p

CSI-2
(D-PHY)
MIPI



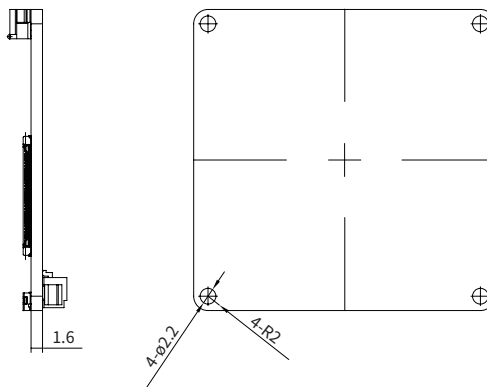
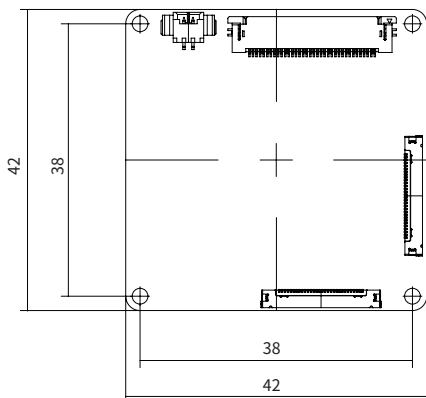
Features

- Parallel to Mipi CSI-2 Bridge(4Lane@up to 2GHz)
- 1080p@60/50fps
- Jetson Nano, Xavier NX Development Platform
- MIPI CSI-2 (D-PHY) x 2

Specifications

Video Resolution	1080p@60/50fps
Video Format	YUV4:2:2 / 8bit
Supply Voltage	12VDC (9V to 15VDC)
Power Consumption	Max. 1.1W
Dimension(mm)	42 x 42 mm
Weight	Approx. 10g
Operating Temperature	-10°C~+50°C, Humidity (Less than 90%)
Storage Temperature	-20°C~+60°C, Humidity (Less than 90%)
Remark	

Dimension





Pin Assignment

· J201

Pin no.	J201(FFC Connector) / Hirose : FH12-36S-05SH(55) (Input)
1	RXD(*1) : 5.0V(option 3.3V)
2	TXD(*1) : 5.0V(option 3.3V)
3	GND
4	POWER IN: +12VDC
5	POWER IN: +12VDC
6	POWER IN: +12VDC
7	GND
8	GND
9	GND
10	GND
11	GND
12	CAM_VCLK_IN
13	GND
14	HSYNC
15	VSYNC
16	GND
17	C_OUT[7]
18	C_OUT[6]
19	C_OUT[5]
20	C_OUT[4]
21	GND
22	C_OUT[3]
23	C_OUT[2]
24	C_OUT[1]
25	C_OUT[0]
26	GND
27	Y_OUT[7]
28	Y_OUT[6]
29	Y_OUT[5]
30	Y_OUT[4]
31	GND
32	Y_OUT[3]
33	Y_OUT[2]
34	Y_OUT[1]
35	Y_OUT[0]
36	GND

(*1) TXD/RXD

- 5 V : Default level
- 3.3 V : Available on request (factory option)
- RXD input : Accepts both 5 V and 3.3 V signals (tolerant)

· J204

Pin no.	J204(Micro Co-Axial) / KEL Co.USL00-30L-A (Output 1)-Default
1	POWER IN: +12VDC
2	POWER IN: +12VDC
3	GND
4	GND
5	INTIO_1(GPIO)
6	GND
7	MIPI_D0_P(Port-1)
8	MIPI_D0_N(Port-1)
9	GND
10	MIPI_D1_P(Port-1)
11	MIPI_D1_N(Port-1)
12	GND
13	MIPI_D1_P(Port-1)
14	MIPI_D1_N(Port-1)
15	GND
16	MIPI_D2_P(Port-1)
17	MIPI_D2_N(Port-1)
18	GND
19	MIPI_D3_P(Port-1)
20	MIPI_D3_N(Port-1)
21	GND
22	I2C_SCL(3.3V)
23	I2C_SDA(3.3V)
24	GND
25	Uart_TX(3.3V)
26	Uart_RX(3.3V)
27	Reset(GPIO)
28	GND
29	NC(GPIO)
30	NC(GPIO)

· J206

Pin no.	J206(Micro Co-Axial) / KEL Co.USL00-30L-A (Output 2)
1	POWER IN: +12VDC
2	POWER IN: +12VDC
3	GND
4	GND
5	INTIO_2(GPIO)
6	GND
7	MIPI_D0_P(Port-2)
8	MIPI_D0_N(Port-2)
9	GND
10	MIPI_D1_P(Port-2)
11	MIPI_D1_N(Port-2)
12	GND
13	MIPI_CLK_P(Port-2)
14	MIPI_CLK_N(Port-2)
15	GND
16	MIPI_D2_P(Port-2)
17	MIPI_D2_N(Port-2)
18	GND
19	MIPI_D3_P(Port-2)
20	MIPI_D3_N(Port-2)
21	GND
22	I2C_SCL(3.3V)
23	I2C_SDA(3.3V)
24	GND
25	Uart_TX(3.3V)
26	Uart_RX(3.3V)
27	Reset(GPIO)
28	GND
29	NC(GPIO)
30	NC(GPIO)

· J301

Pin no.	J301(External Power) / Molex : 53261-0271
1	POWER IN: +12VDC
2	GND