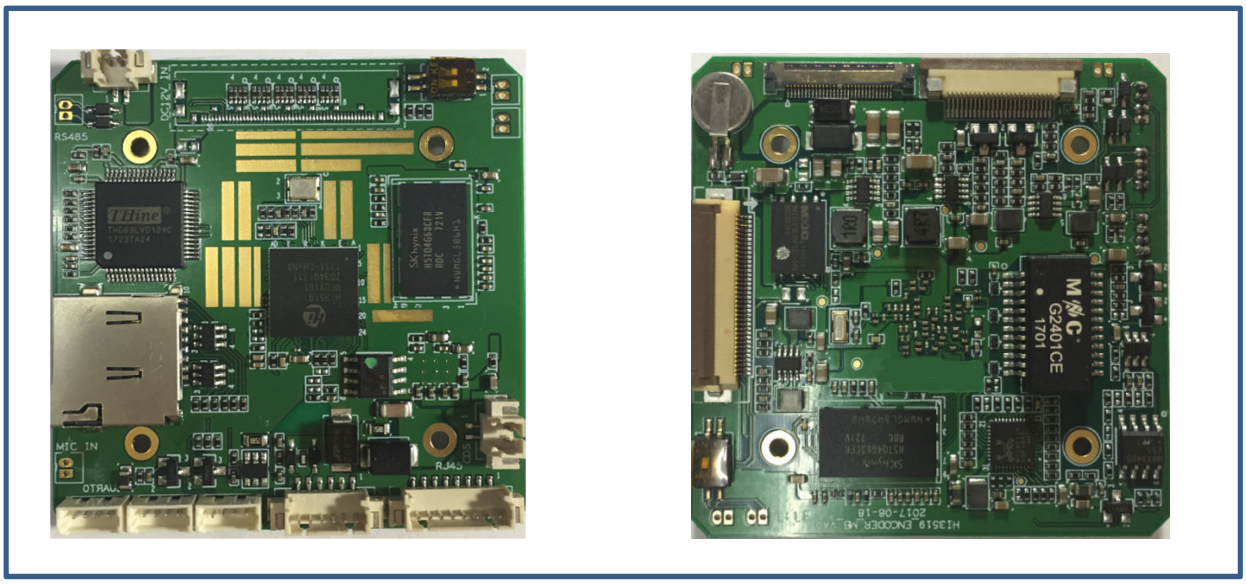
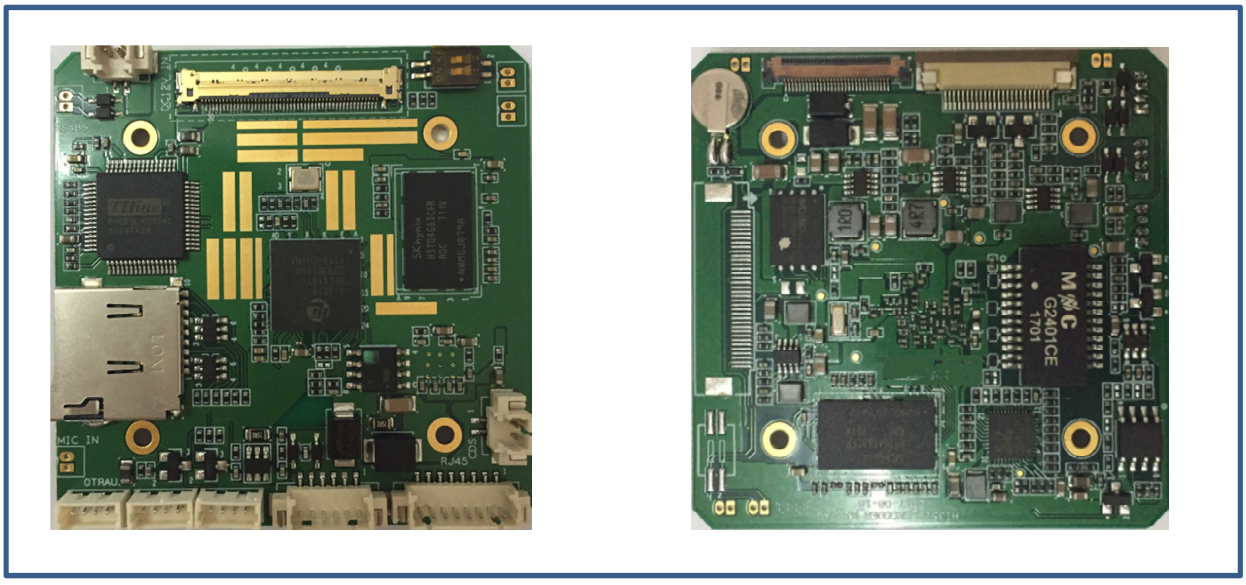
HW19ECB

Introduction

HIVIEW provides a video network encoding board designed with Huawei Hisilicon chip HI3519V101. There are two input methods for you to choose, as shown in the figure below. You can use this board to develop 4K network cameras. We will provide software services and hardware services.



BT1120 Interface (36pin) + LVDS Interface (30pin)



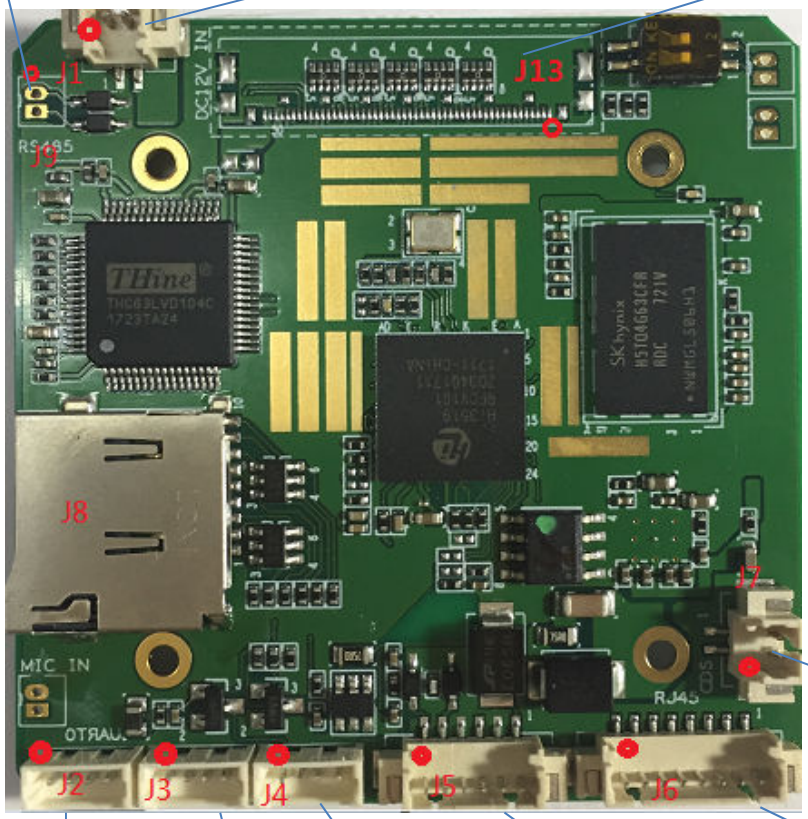
8-Lane Sensor(50pin)+ LVDS Interface (30pin)

Interface description

J9（RS485）			
1	RS485+/232RX	2	RS485-/232TX

J1(POWER)			
1	GND	2	DC12V

J13：(SENSOR INPUT)			
1	GND	26	MIPI0_D2P
2	SENSOR0_CLK(1.8V)	27	GND
3	GND	28	MIPI1_D3P
4	SENSOR0_HS(1.8V)	29	MIPI1_D3M
5	SENSOR0_VS(1.8V)	30	GND
6	GND	31	MIPI1_D1P
7	SENSOR0_RSTN(1.8V)	32	MIPI1_D1M
8	SPI0_CSN(1.8V)	33	GND
9	SPI0_MISO(1.8V)	34	MIPI1_D2M
10	SPI0_MOSI/I2C0_SDA(1.8V)	35	MIPI1_D2P
11	SPI0_CLK/I2C0_SCL(1.8V)	36	GND
12	GND	37	MIPI1_D0P
13	MIPI0_D3M	38	MIPI1_D0M
14	MIPI0_D3P	39	GND
15	GND	40	GPIO(CMOS IO)
16	MIPI0_CKM	41	GPIO(CMOS IO)
17	MIPI0_CKP	42	GND
18	GND	43	IR_CUT+(CMOS IO)
19	MIPI0_D1M	44	IR_CUT-(CMOS IO)
20	MIPI0_D1P	45	GND
21	GND	46	NC
22	MIPI0_D0M	47	GND
23	MIPI0_D0P	48	GND
24	GND	49	3.3V OUT
25	MIPI0_D2M	50	3.3V OUT



J7（CDS）			
1	CDS	2	GND

J6（RJ45）			
1	MX4-	2	MX4+
3	MX3-	4	MX3+
5	MX2-	6	MX2+
7	MX1-	8	MX1+

J2（UART0）			
1	GND	2	3V3
3	RXD	4	TXD

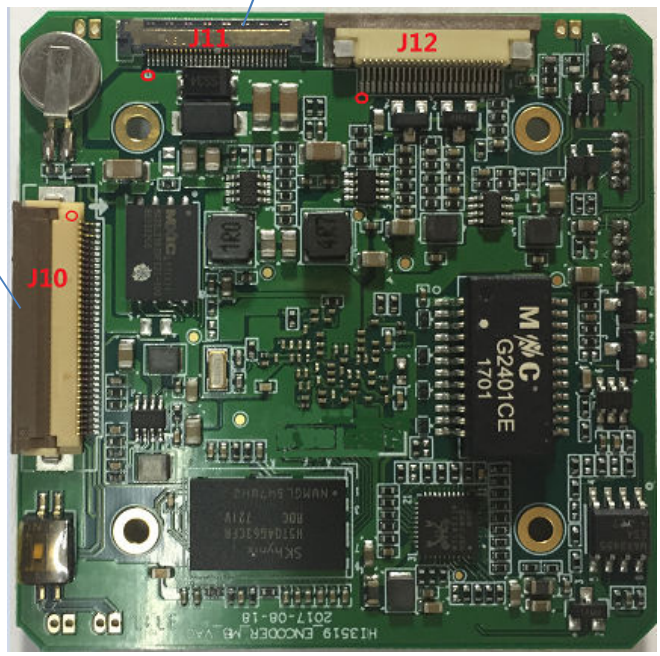
J4（USB 2.0）			
1	USB_3V3	2	USB-
3	USB+	4	GND

J5（AUDIO/CVBS）			
1	AUDIO OUT	2	AUDIO IN
3	GND	4	SYS_RESET
5	GND	6	CVSB_OUT

J3（ALARM I/O）			
1	ALARM IN	2	ALARM OUT
3	GPIO	4	GPIO

J10：（BT1120 INPUT）			
1	GND	19	C-OUT [6]
2	Y-OUT [0]	20	C-OUT [7]
3	Y-OUT [1]	21	GND
4	Y-OUT [2]	22	VSYNC
5	Y-OUT [3]	23	HSYNC
6	GND	24	GND
7	Y-OUT [4]	25	DIGITAL CLOCK
8	Y-OUT [5]	26	GND
9	Y-OUT [6]	27	GND
10	Y-OUT [7]	28	GND
11	GND	29	GND
12	C-OUT [0]	30	GND
13	C-OUT [1]	31	DCIN(9~15V) 12V
14	C-OUT [2]	32	DCIN(9~15V) 12V
15	C-OUT [3]	33	DCIN(9~15V) 12V
16	GND	34	GND
17	C-OUT [4]	35	TXD
18	C-OUT [5]	36	RXD

J11：(LVDS INPUT)			
1	TXOUT3+ (LVDS)	16	DCIN(9~15V) 12V
2	TXOUT3- (LVDS)	17	DCIN(9~15V) 12V
3	TXCLKOUT+ (LVDS)	18	DCIN(9~15V) 12V
4	TXCLKOUT- (LVDS)	19	GND
5	TXOUT2+ (LVDS)	20	GND
6	TXOUT2- (LVDS)	21	GND
7	TXOUT1+ (LVDS)	22	GND
8	TXOUT1- (LVDS)	23	GND
9	TXOUT0+ (LVDS)	24	GND
10	TXOUT0- (LVDS)	25	NC
11	GND	26	NC
12	RXD	27	NC
13	TXD	28	NC
14	DCIN(9~15V) 12V	29	NC
15	DCIN(9~15V) 12V	30	NC



General specifications

Power supply	DC12V±10%
Current(Normal operation@12v)	220mA
Power Consumption	2.6W
Dimensions	54*54(±0.5)mm
Weight	Approx. 60g
Operating Temperature	-20°C to 60°C
Operating Humidity	Lower than 90%