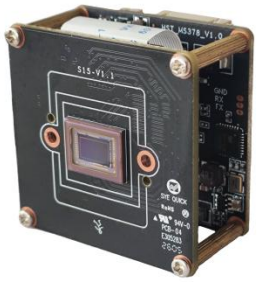
IM800S6

8MP@30fps/4MP@60FPS/2MP@120fps IPC Module



The IM800S6 is a high-performance 8MP@30FPS Low-illumination Module designed for CCTV Solution. It features a 1/2.8” Sony IMX415 STARVIS CMOS and is powered by the SSC378QE AI SOC.It integrated with efficient neural network inference engine, with a maximum computing power of 1 TOPS.It supports wired network and 2.4G WiFi.It support dual UART serial communication.

For secondary development, the IM800S6 includes two set UART interfaces and provides SDK for Windows, Linux and Android. It also supports the ONVIF standard protocol, along with OpenIPC and FPV firmware. This makes it highly convenient for secondary development and allows for quick integration into your projects.

Key Features：

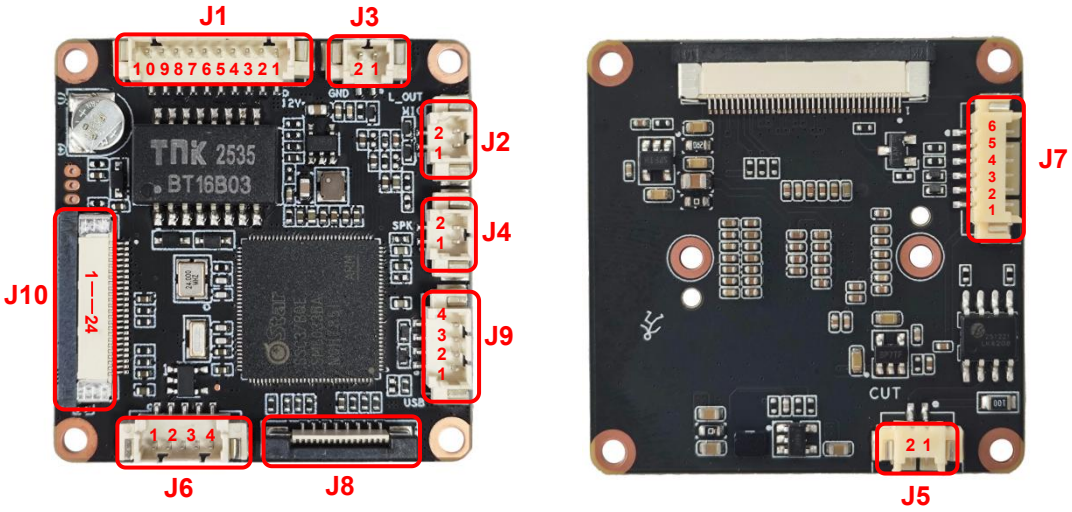
- 1/2.8” 8MP Sony IMX415 STARVIS CMOS
- Maximum resolution up to 3840×2160@30fps
- SigmaStar SSC378QE AI SOC,supports 1 TOPS
- Support motion detection
- Support TCP/IP/HTTP/NTP/DHCP/SMTP/RTSP
- Open SDK(Linux,Windows), CGI, Support OPENIPC development
- Support UART interface

Technical Specifications:

Image Sensor	
Model	IM800S6
Sensor	1/2.8” 8MP Sony IMX415 STARVIS CMOS
Maximum Resolution	3840x2160@30fps
Minimum Illumination	0.05lux @F1.0(Color) / 0.01 lux@F1.0 (B/W)
Camera	
AGC	Auto/Manual
S/N Ratio	≥50dB（AGC OFF）
Shutter Speed	1/2 - 1/20 ,000s,Slow shutter support
Wide Dynamic Range	Digital WDR
Exposure Mode	Auto/ Manual/shutter mode
AWB	Yes
Day & Night	Day
Compression	
Video Compression	H.265/H.264 Main Profile /M-JPEG
Audio Compression	G711U,G711A,PCM
Image Resolution	
Main Stream	3840x2160@30fps/2560x1520@60fps/1920×1080@120fps (alternative)
Sub Stream	800x448/640×480/480x360/352×288@30fps
General Protocol	
Network Protocol	TCP/IP/HTTP/NTP/DHCP/SMTP/RTSP/P2P
ONVIF protocol	Yes
P2P	
TUYA APP	Support for Tuya APP on Android, IOS (Default without…)
Function	
Web Configuration	Yes
OSD	Yes
Motion Detection	Yes
Interface	
Wired	1ch 10/100 Base Ethernet,RJ45 interface
UART	Support
Other	
Power Supply	DC 12V
Size/Weight	38x38mm double board / 20g
Operation Temperature	-30°C~60°C
Working Humidity	≤90%RH(non-condensing)

Note: 3840x2160@30fps/2560x1520@60fps/1920×1080@120fps,different resolutions require upgrading to different firmware implementations.When purchasing, you need to select the corresponding version!

User Interface:



NO.	Pin	Pin Name	Functional Description
J1	1	12VIN	DC power input, 12V
	2	Gnd	GND
	3	LED_ACT	Network indicator light interface
	4	GPIO7	Restore factory settings LOW valid
	5	RJ45-1	Network,RJ45-1
	6	RJ45-2	Network,RJ45-2
	7	RJ45-3	Network,RJ45-3
	8	RJ45-6	Network,RJ45-6
	9	UART1_TXD	Serial communication, sending TX
	10	UART1_RXD	UART1, receive RX
J2	1	MIC+	MIC+
	2	MIC-	MIC-
J3	1	LINE_OUT	LINE_OUT
	2	GND	GND
J4	1	SPK+	SPK+
	2	SPK-	SPK-
J5	1	IR-CUT+	IRCUT signal +
	2	IR-CUT-	IRCUT signal -
J6	1	Alarm_in1	Alarm_in1
	2	Alarm_in2	Alarm_in2
	3	GND	GND
	4	Alarm_out1	Alarm_out1
	5	Alarm_out2	Alarm_out2
J7	1	GPIO2	Reserve GPIO
	2	IO_IR	Soft photosensitive infrared
	3	IO_WL	Soft photosensitive white light
	4	CDS_IN	Hard light sensitive infrared
	5	GND	GND
	6	12V	12V DC OUT
J8	1-16	Expand	Expand TF card storage, Reset function
J9	1	VCC	5V/3.3V optional, default 5V
	2	USB DM	USB DM
	3	USB DP	USB DP
	4	GND	GND
J10	1-24	YS-AF	Youshi AF lens