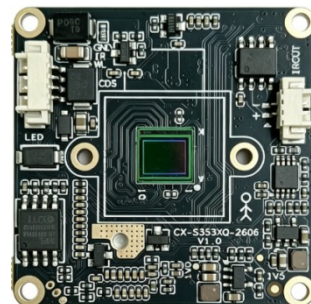




MT-S15Q

Features

- 1/2.8" 5MP CMOS
- H.265+, H.265/H.264, dual stream
- Supports backlight compensation, highlight compensation, and 3D digital noise reduction
- Supports image flip, mirror, and rotation
- Supports dual light and smart dimming
- Supports external TF card, WiFi or 4G communication
- Supports 2 x UART, 3 x IO
- Supports accurate human detection and vehicle detection; Applicable to scenarios including electronic fence, intrusion detection and on-duty detection etc.
- Supports privacy mask
- Supports voice intercom, voice broadcast, custom voice
- ONVIF Profile S, T, G, M
- Plug-in free for mainstream browsers
- Support Browser-based CMS



Specifications

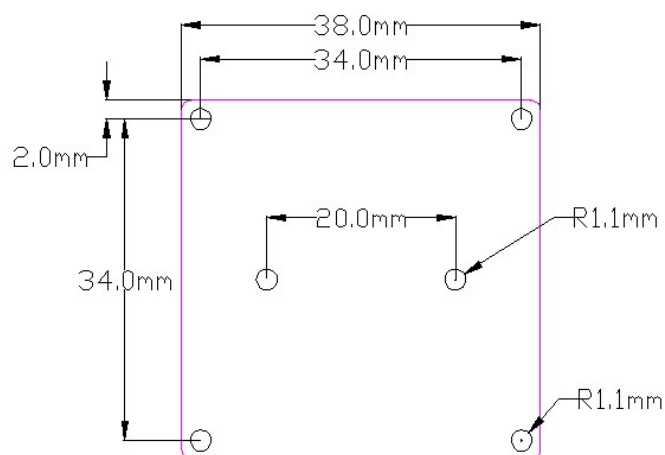
Model	MT-S15Q
Main Chip	SSC377QE 2Gb DDR3, 1TOPS Computing Power
Image Sensor	IMX335 5MP, 1/2.8" CMOS
Image Output	Main stream 30FPS (2576*1944, 2048*1536, 1920*1280, 1600*1200, 1024*768)
	Sub stream 30FPS (800*600, 320*240)
	Image effects: Auto white balance, backlight compensation, and adjustable hue/brightness/contrast/saturation/sharpness



Audio	Standard: 1-channel Line In input, 1-channel built-in amplifier output (8Ω 1W/4Ω 2W)
	G.711 codec; supports two-way audio intercom, audio-video synchronization, and echo cancellation
Network	1 x RJ45 10/100 M self-adaptive Ethernet port
TF	Supports 1× external TF card slot, up to 512GB
WIFI (Optional)	Supports external Wi-Fi 4/6 module, dual-band, 802.11b/g/n/ax
4G (Optional)	Supports external 4G communication module
Reset Key	Supports hardware reset
UART	2 x UART
IO	3 x IO
Light Board Interface	Supports dual light and smart dimming
Indicator	Supports network connection status LED
Network Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, IPv4, IPv6, UDP, SSL/TLS, SNMP, ARP, WebSocket, ONVIF
Standard	Human & vehicle classification (including non-motor vehicles), boundary detection, intrusion detection, region entering detection, region exiting detection and sound alarm linkage
Optional	Face capture, face recognition, pet detection, lane violation control, license plate recognition, baby detection, abnormal sound detection, occlusion detection, electronic fence, off-post detection, people counting, custom voice alarm
Power Supply	DC 12V
Operating Conditions	-30℃~+65℃ (-22° F to +149° F), ≤95%RH
Dimension	Board: 38 x 38 mm, board thickness 1.6 mm

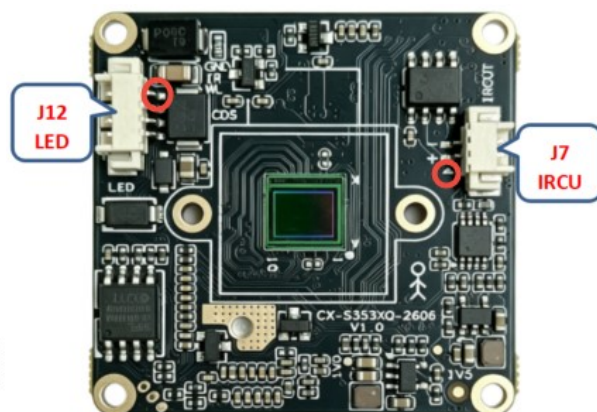
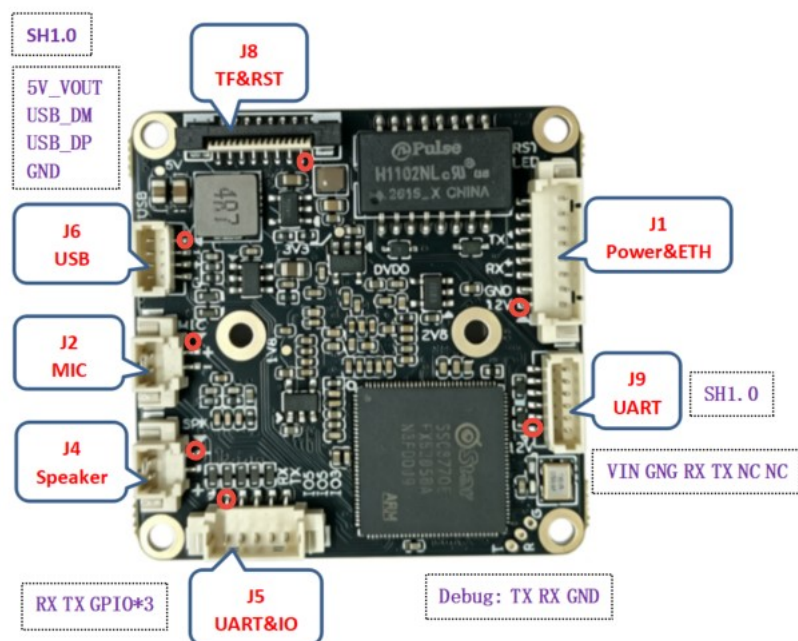


Board Outline



TOP

Main Board



---Note:The circle point to pin 1



Interface Descriptions (Note: IO defaults to 3.3V power domain)

J1 (Vertical SMT-8P-1.25MM) ----12V Power and Network Interface

Pin	Name	Function
1	12V VIN	DC power input, voltage range 12 V
2	GND	GND
3	TNRX-	Receive Data-
4	TNRX+	Receive Data+
5	TNTX-	Transmit Data-
6	TNTX+	Transmit Data+
7	LED_ACT	Network Link LED
8	RST	IO Reset

J2 (Vertical SMT-2P-1.25MM) ----MIC Interface

Pin	Name	Function
1	AIN0	MIC Input
2	GND	GND

J4 (Vertical SMT-2P-1.25MM) ----Speaker Interface

Pin	Name	Function
1	SPK+	Connect to 8 ohm 1 W speaker +
2	SPK-	Connect to 8 ohm 1 W speaker -

J5 (Vertical SMT-6P-1.25MM) -----UART&IO Interface

Pin	Name	Function
1	UART1_RX	UART RX
2	UART1_TX	UART TX
3	GPIO5	General-purpose GPIO
4	GPIO4	General-purpose GPIO
5	GPIO3	General-purpose GPIO

J6 (Vertical SMT-4P-SH1.0MM) -----USB Interface

Pin	Name	Function
1	5V	5V Power Output
2	USB_DM	USB_DM
3	USB_DP	USB_DP
4	GND	GND

J7 (Horizontal SMT-2P-1.25MM) ----IRCUT

Pin	Name	Function
1	IRCUT+	IRC Switch +
2	IRCUT-	IRC Switch -

**J8 (2*8PPVertical Dual Row FPC) ----TF Card Slot**

Pin	Name	Function
1	SD_3V3	TF Card Power Supply
2	SD_3V3	TF Card Power Supply
3	SD_3V3	TF Card Power Supply
4	SW_RST	Reset Button
5	SD_3V3	3.3V Power Output
6	SD_DATA2	TF Card Data 2
7	SD_DATA3	TF Card Data 3
8	SD_CMD	TF card command
9	GND	GND
10	SD_CLK	TF Card Clock
11	GND	GND
12	SD_DATA0	TF Card Data 0
13	SD_DATA1	TF Card Data 1
14	NC	
15	NC	
16	NC	

J9 (Vertical SMT-6P-SH1.0MM) -----UART Interface

Pin	Name	Function
1	VIN	DC power input, voltage range 12V
2	GND	GND
3	FUART_RX	Fast UART RX
4	FUART_TX	Fast UART TX
5	NC	
6	NC	

J12 (Vertical SMT-4P-1.25MM) ----Light Board Interface

Pin	Name	Function
1	GND	GND
2	IR_CTRL	IR Light Enable, Active High, PWM Supported
3	WL_CTRL	White Light Enable, Active High, PWM Supported
4	CDS_IN	HW Photosensitive, CDS Detection, Default Active High Input at Night

Note: The above interface definitions are the default functions. For special functions, please contact the developer.