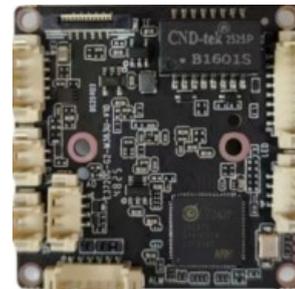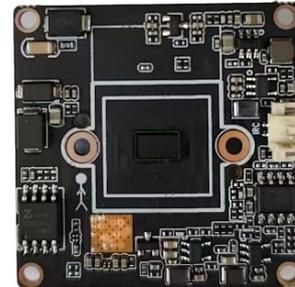# E7520G-G2

Features

● 1/3.3" 2MP 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 1 serial port, 1 I/O input,and 1 I/O output

● 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	E7520G-G2
Main Chip	37X, built-in 0.5T computing power
Image Sensor	2MP, 1/3.3" CMOS
Image Output	Main stream 30FPS（1920*1080，1280*720）
	Sub stream 30FPS（640*360，352*240）
	Image effects: Auto white balance, backlight compensation, and adjustable hue/brightness/contrast/saturation/sharpness

Audio	Standard: 1-channel MIC input, 1-channel built-in amplifier output (8Ω1W/4Ω2W)
	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	1× TF card slot, supports up to 512 GB
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
IO Input/Output	1 x Input, 1 x Output
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
Intelligent Applications	Human & vehicle classification (including non-motor vehicles), boundary detection, intrusion detection, region entering detection, region exiting detection and sound alarm linkage
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

Images

J8
TF&RST

J3
USB

J4
MIC

J5
SPEAKER

J6
External
Audio

J7
UART&ALARM

J1
Power&ETH

J2
LED

J10
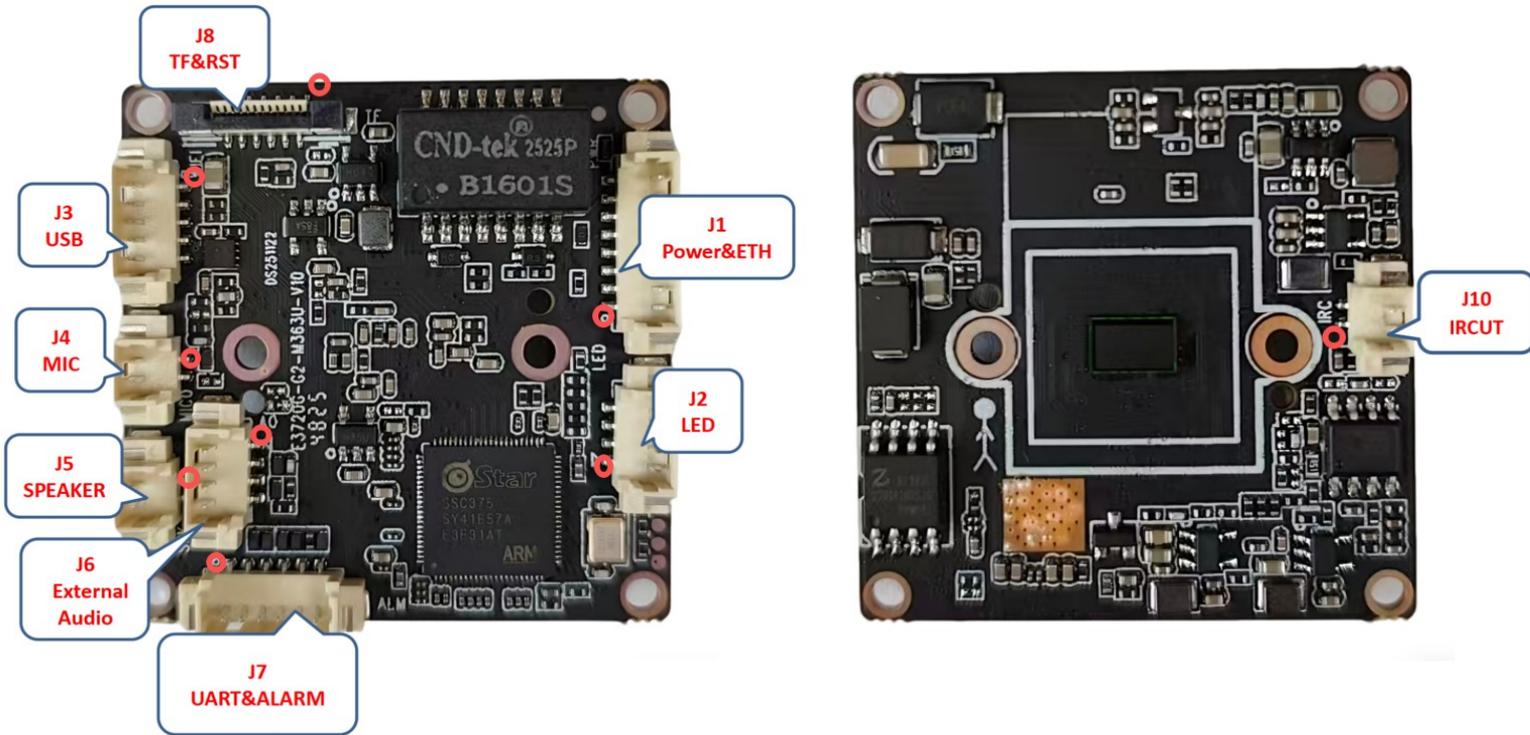IRCUT
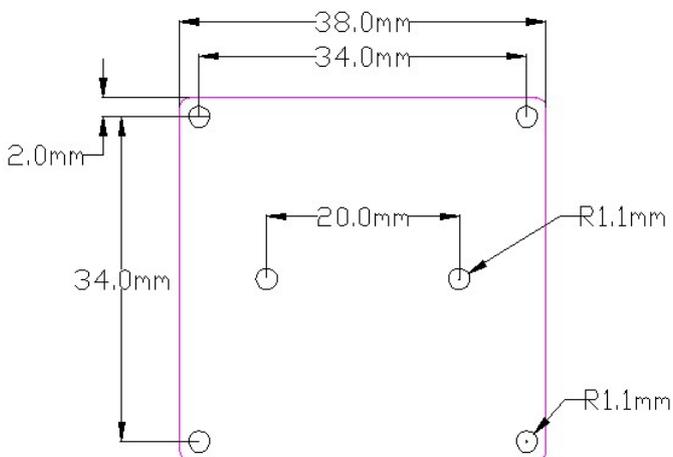
---Note:The circle point to pin 1

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 12V IN
2	GND	GND
3	RX-	Receive Data-
4	RX+	Receive Data+
5	TX-	Transmit Date-
6	TX+	Transmit Date+
7	LED_LINK	Network Link LED
8	RST	Hardware Reset (like J8.11)

J2（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	ADC_DET	HW Photosensitive, CDS Detection, Default Active High Input at Night

3

J3 （Vertical SMT-5P-1.25MM） -----**USB Interface**

Pin	Name	Function
1	12V0	12V Power Output
2	USB_DM	USB Differential Data -
3	USB_DP	USB Differential Data +
4	GND	GND
5	WIFI_EN	Wi-Fi Power Enable, Active Low (Default)

J4 （Vertical SMT-2P-1.25MM） ----**MIC0 Interface**

Pin	Name	Function
1	MIC0	MIC0 Input
2	GND	GND

J5 （Vertical SMT-2P-1.25MM） ----**Speaker Interface**

Pin	Name	Function
1	SPK+	Speaker+(8Ω1W）
2	SPK-	Speaker- (8Ω1W）

J6 （Vertical SMT-4P-1.25MM） ----**External Audio Interface**

Pin	Name	Function
1	GND	GND
2	MIC_IN	Microphone Input
3	GND	GND
4	LINE_OUT	Line-level Audio Output

J7 （Vertical SMT-6P-1.25MM） -----**Alarm Interface**

Pin	Name	Function
1	ALARM_IN0	Alarm Input 0, Active Low for Alarm
2	ALARM_OUT0	Alarm Output 0, Active High for Alarm
3	FUART_TX	Fast UART TX, Configurable as Standard UART
4	FUART_RX	Fast UART RX, Configurable as Standard UART
5	GND	GND
6	SPK_EN	Line-level Audio Output Enable, Active Low (Default)

J8 （2*6PVertical Dual Row FPC） ----**TF Card Slot**

Pin	Name	Function
1	GND	GND
2	SD_DATA2	TF Card Data 2
3	SD_DATA3	TF Card Data 3
4	SD_CMD	TF Card Command
5	SD_3V3	TF Card Power Supply
6	SD_CLK	TF Card Clock

7	GND	GND
8	SD_DATA0	TF Card Data 0
9	SD_DATA1	TF Card Data 1
10	SD_CDZ	TF Card Detection, Active Low (Default for Card Insertion)
11	SW_RST	Reset Button (like J8.11)
12	GND	GND

J9（Horizontal SMT-2P-1.25MM）----**IRCUT**

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

---The above interface definitions are default functions, for special function requirements, please contact the developer.