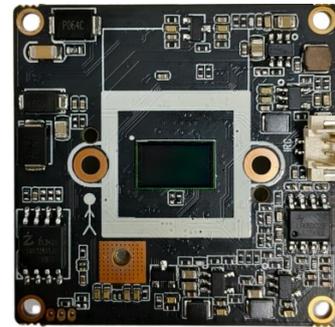# E7740G-G1

Features

● 1/1.8" 4MP Ultra Low-Light CMOS

● H.265+, H.265/H.264, dual stream

● Supports HDR, backlight compensation, highlight compensation, and 3D digital noise reduction

● Supports image flip, mirror, and rotation

● Supports full-color night vision with smart illumination

● 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

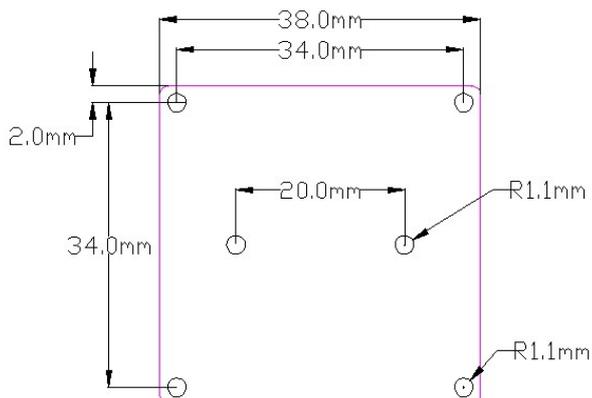● Plug-in free for mainstream browsers

● Support Browser-based CMS

Specifications

Model	E7740G-G1
Main Chip	37X, built-in 1T computing power
Image Sensor	4MP, 1/1.8" CMOS
Image Output	Main stream 30FPS（2560*1440, 2304*1296, 1920*1080, 1280*720）
	Sub stream 30FPS（640*360, 352*240）
	Image effects: Auto white balance, digital wide dynamic range, backlight compensation, and adjustable hue/brightness/contrast/saturation/sharpness
Audio	Standard: 1-channel Line In input, 1-channel built-in amplifier output（8Ω1W/4Ω2W）
	G.711 codec; supports two-way audio intercom, audio-video synchronization, and echo cancellation

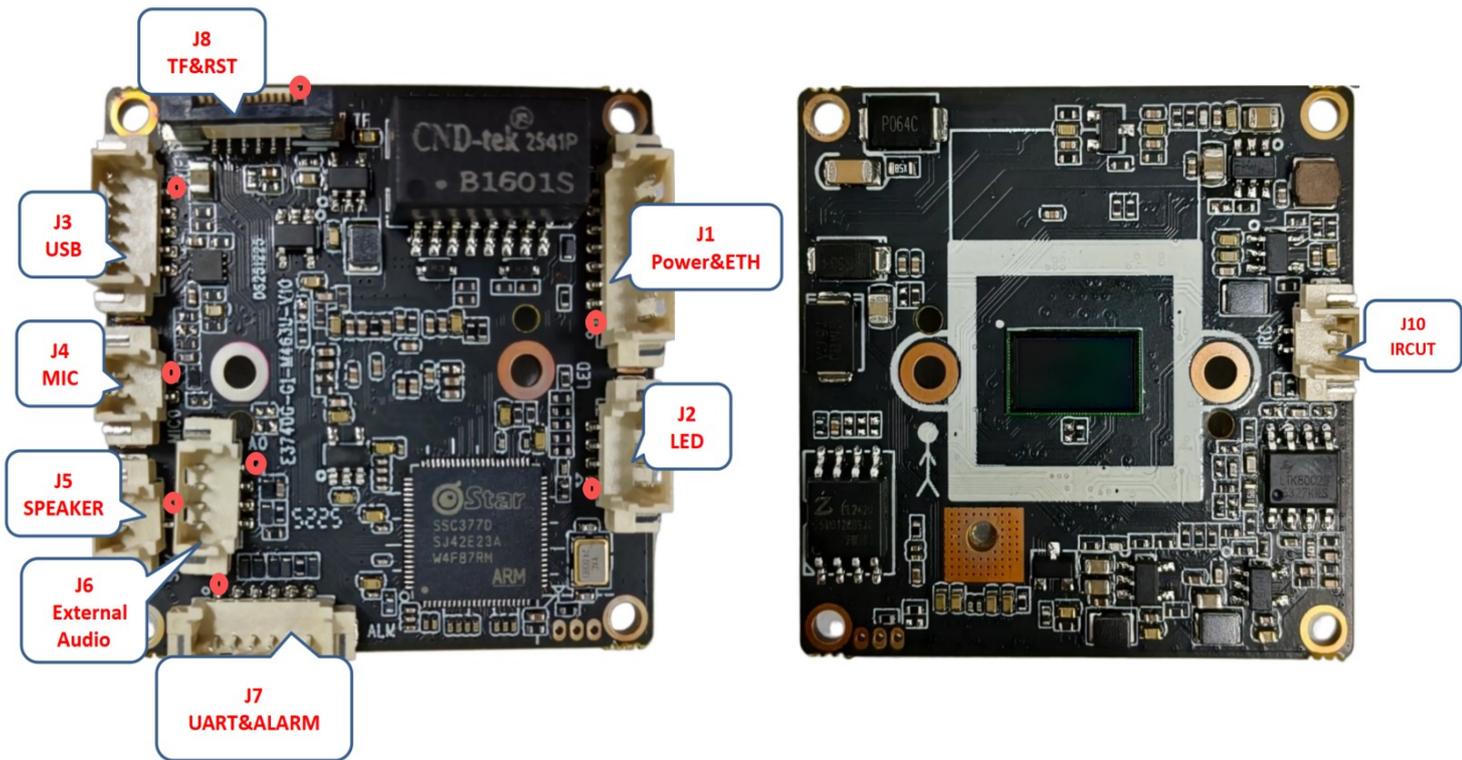| Network	1 x RJ45 10/100 M self-adaptive Ethernet port
TF	1× TF card slot, supports up to 512 GB
WIFI (Optional)	Supports external Wi-Fi 4/6 module, dual-band, 802.11b/g/n/ax
4G (Optional)	Supports external 4G communication module
Reset Key	Supports hardware reset
IO Input/Output	1 x Input, 1 x Output
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 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

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.