AI Smart Camera (POE)

■ C T 3 6 L

■ C T 3 6 B

V1.0   2025-2-14

Product features

Vision processor RV1106G2

Based on a single ARM Cortex-A7 32-bit CPU.
Integrated with Neon and FPU, main frequency up to 1.2GHz.
Featuring high performance and low power consumption.

A built-in NPU with 0.5 TOPS

Support INT4/INT8/ INT16 mixed operation.
Support framework switching of TensorFlow/MXNet/PyTorch/Caffe/ONNX.

3-megapixel HD camera

This camera features high sensitivity, a high signal-to-noise ratio, and low-light capabilities.
It delivers high-definition image quality, accurately capturing the details of highlights and shadows in dynamic scenes.

Fast booting and Instant Response

Design of the built-in RISC-V MCU provides low power consumption, fast startup, fast image capture, fast loading of AI model library, and fast completion of face recognition.

Product features

High-performance 5-megapixel ISP

Support advanced image enhancement and correction algorithms, including HDR and WDR, as well as multi-level noise reduction. This ensures clear images and full-color night vision in every lighting condition, such as complete darkness or strong backlight.

5M@30FPS H265/H264 video encoding

Support multi-stream encoding and intelligent encoding, with adaptive bitrate saving based on the scene. It offers strong encoding capabilities, high frame rates, a low bitrate, and minimal storage requirements.

Support 100M Ethernet and POE

Support an adaptive 100M Ethernet port and POE. This ensures power supply and the transmission of video signals through a single Ethernet cable. It offers a plug-and-play experience for efficient and convenient setup.

A wide range of applications

Facial recognition, gesture recognition, gate access control, smart security, IP cameras, self-service terminals, smart finance, smart construction sites, smart transportation, and more.

Specifications

		CT36L	CT36B
Basic Specifications	CPU	RV1106G2, Cortex-A7, integrated Neon and FPU, main frequency up to 1.2GHz	
	NPU	0.5 Tops, support INT4/INT8/ INT16 mixed operation Support framework switching of TensorFlow/MXNet/PyTorch/Caffe/ONNX	
	ISP	High-performance 5-megapixel ISP supports HDR, WDR, 3DNR, 2DNR, sharpening, defogging, fisheye correction, gamma correction, feature detection, and more	
	VPU	3072×1728 (5M) @30fps H.265 / H.264 video encoding 16M@60FPS JPEG snapshot	
	RAM	Built-in 128MB DDR3	
	Storage	Built-in 16MB SPI Flash	Built-in 8GB eMMC
	OS	Linux	
	Size	69.72mm × 69.72mm × 174.21mm	
	Power	DC 12V (5.5mm × 2.1mm), support POE	
	Protection Rating	IP67 waterproof and dustproof design	
	Environment	Operating temperature: -20℃ ~ 50℃, Operating humidity: 15% ~ 90%RH (non-condensing)	
Camera	Image Sensor	SC3336	
	CMOS Size	1/2.8"	
	Pixel	3-megapixel (2304×1296)	
	Aperture	F2.0	
	Field of View	98.3°	
	Focal Length	3.95mm	
	Distortion	< 33%	
	Maximum frame rate	2304×1296@30fps	
	Focusing method	Manual focus	
	Camera Type	Color	
Network	Ethernet	One 10/100M Ethernet (RJ45)	
	WiFi	Not support	2.4GHz single-band WiFi, 1T1R, 802.11b/g/n

Interface description

100M Ethernet port+POE power supply   DC 12V–2A
5.5mm * 2.1mm

Interface	PIN	Definition	Attribute	Description
8pin RJ45: Ethernet + Power Interface	1	DC 12V	Power	DC power supply positive input
	2	DC GND	GND	DC power supply negative input
	3	485_B	Differential	RS485-B
	4	485_A	Differential	RS485-A
	5	RJ45_RX-	Input	Network signal input (RJ45_6, green)
	6	RJ45_RX+	Input	Network signal input (RJ45_3, white-green)
	7	RJ45_TX-	Output	Network Signal Input (RJ45_2, orange)
	8	RJ45_TX+	Output	Network signal input (RJ45_1,white orange)

(CT36L & CT36B)

Dimension

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Contact Us
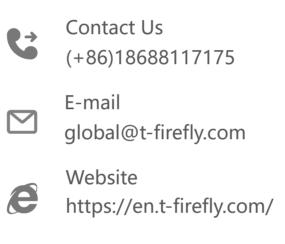(+86)18688117175

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