

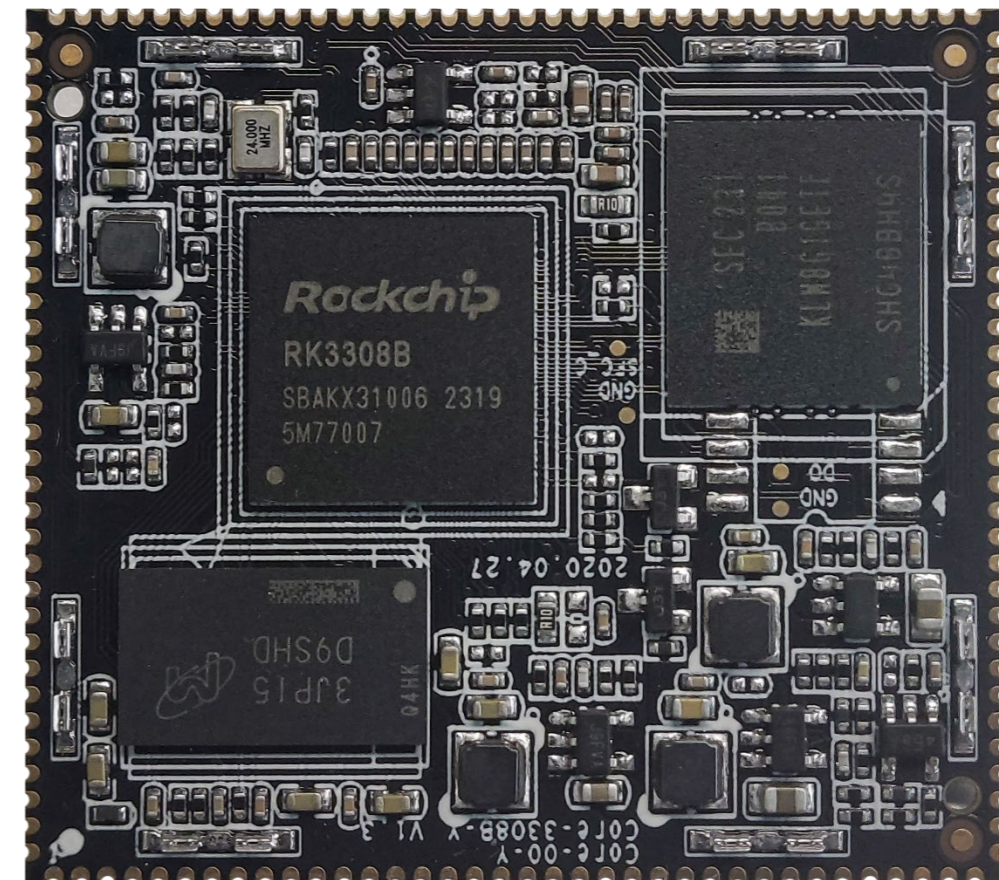


IoT Quad-Core 64-bit Core Board

- | Core-3308BY(Commercial)
- | Core-3308JY(Industrial)
- | Core-3308MY(Automotive)

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T-CHIP INTELLIGENCE TECHNOLOGY



Specifications



		Core-3308BY(Commercial)	Core-3308JY(Industrial)	Core-3308MY(Automotive)
Basic Specifications	CPU	RK3308B Quad-core 64-bit ARM Cortex-A35, 1.3GHz	RK3308J Quad-core 64-bit ARM Cortex-A35, 1.3GHz	RK3308M Quad-core 64-bit ARM Cortex-A35, 1.3GHz
	RAM	DDR3 (256M / 512MB optional)		
	Storage	eMMC (4GB / 8GB optional)		
	OS	Buildroot (Linux/QT) embedded system, ROS (Robot os) Baidu DuerOS, aispeech, iFLYTEK, Amazon Alexa and more AI speech systems		
	Interface	Castellated holes (136Pin, 1.2mm pitch)		
	Power	5V (voltage tolerance ± 5%)		
	Power consumption	Normal: 1W(5V/200mA), Max: 2W(5V/400mA)		
	Size	45mm × 40.2 mm		
	Environment	Operating temperature: -20°C ~ 60°C Storage humidity: 10% ~ 90%RH (non-condensing)	Operating temperature: -40°C ~ 85°C Storage humidity: 10% ~ 90%RH (non-condensing)	Operating temperature: -40°C ~ 85°C Storage humidity: 10% ~ 90%RH (non-condensing)
Interface Specifications	Network	Integrated 10/100 MAC Ethernet controller, capable of extending to 100Mbps Ethernet Through SDIO 3.0, a 2.4GHz WiFi/BT module expansion is available and 802.11a/b/g/n/ac is supported		
	Video Input	Support image output processing VOP with RGB666 (that is liquid crystal display controller(LCDC)), and RGB/MCU displays (up to 1280 * 720 resolution)		
	Video Output	2 * I2S/TDM (8ch), 1 * PDM (8ch, supporting multi-MIC arrays), 1 * I2S/PCM (2ch) 1 * Lineout, 1* SPDIF TX (8ch), 1 * SPDIF RX (8ch, supporting HDMI ARC)		
	USB	1 * USB 2.0 (Host), 1 * USB2.0 (OTG)		
	Watchdog	32-bit watchdog timer		
	Other	4 * I2C, 5 * UART, 3 * SPI, 11 * PWM(with multiplexing), 6 * ADC * Support modules such as accelerometers, temperature and humidity sensors, distance sensors, GPRS, and NB-IoT modules		



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Contact Us
(+86)18688117175



E-mail
global@t-firefly.com



Website
www.t-firefly.com



Address
Room 2101, Hongyu Building, #57 Zhongshan 4Rd, East District,
Zhongshan, Guangdong, China.