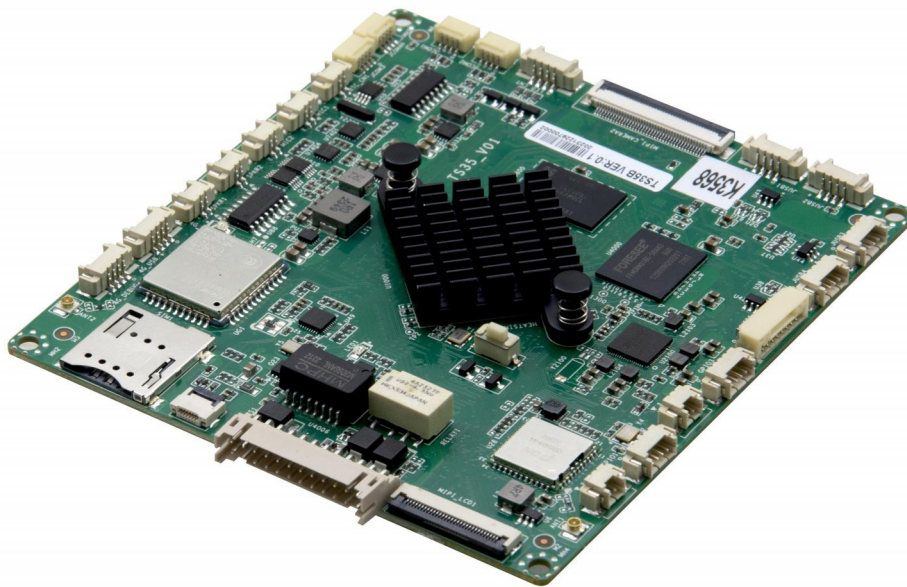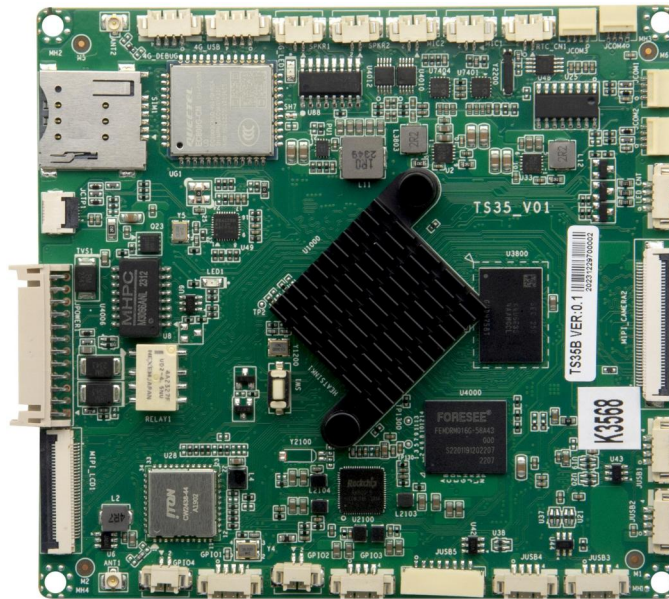# TS35B VER:1.0

Based on RK3568B2 SOC platform_Cortex-A55 Processor

[Cortex-A55]

Specification:

Model No.	TS35B VER:1.0
Processor	CPU Rockchip RK3568B2 quad-core Cortex-A55 2.0GHz Processor
Chipset	Based on RK3568B2 SOC,NPU：Up to 1.0TOPS
Memory	Onboard LPDDR4 2G memory(4G/8G optional）
Display	Integrated ARM Mali-G52 GPU, supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1
	1x MIPI output interface
Playback mode	supports multiple playback modes such as loop, timing, and insert
Ethernet	1x 10M/100M/1000M adaptive Ethernet
WIFI、BT	1x Built-in WIFI/BT
Storage	1x eMMC memory chip, 16G（32G/64G/128G optional）
Audio	Supports left and right channel output, built-in dual 8R/5W amplifiers
Expansion Slot	N/A
I/O interface	1x MIPI OUT interface, 2k@60 8bit, 31pin MIPI definition
	1x TP touch screen socket
	1x 2MIPI Camera, 40Pin mipi camera (monocular MIPI camera), supports 2053+2093 MIPI camera Sensor
	1x Support relay interface/button/Wiegand interface/485 interface/HOST (OTG) interface/network interface/power interface
	2x Speaker interface
	2x MIC interface
	4x UART interface, supports 4 channels by default, UART1 VCC_5V (optional 3.3V), UART2 VCC_5V (optional 3.3V), UART3 VCC_5V (optional 3.3V) compatible with DEBUG , UART4 VCC_5V (optional 3.3V) compatible with 232 to connect NFC, QR code and other peripherals
	5x USB interface
	1x Connect to the fill light interface, VCC is 12V0.5A, the indicator light flashes: green if recognition is successful, red if recognition fails, dark white light
	1x WIFI/BT antenna base
	1x External 2pin battery socket, RTC clock battery (no power loss for 7 days), timer power supply after shutdown

	The 4G module is built-in to the board. The specific model will be confirmed by the supply chain after comparing the price. The reference model provided by the customer: 4G module model--EC800G-CN
	1x 4G module card use (micro-SIM small card), place the card holder on the back of the board
	1x Onboard LED
	1x D-BUG 3pin
	1x KEY button interface, 16pin, FPC specification
Power Type	DC 12V single power input
OS	Android 11
Working temperature	0℃～60℃
Storage temperature	-20℃～70℃
Working Humidity	5%-95% (relative humidity, non-condensing)
Dimension	103 x 95 x 1.6mm, screw hole diameter 3.1mm
PCB	8 layer board

Order information:

NO.	Model	Processor	Frequency	Memory	MIPI	HDMI	LVDS	eMMC	WIFI	LAN	USB	CAN	UART	Power
1	TS35B	RK3568B2	2.0G	2G	1	/	/	16G	1	1*1000M	5	1	4	DC12V