

 Rubik Cube-1 IO tabel					
pin name	function	device			
GPIO0	(Strapping)	not use			
GPIO1/U0TXD	UART0_RXD	CP2104 - RXD			
GPIO2	(Strapping)	not use			
GPIO3/U0RXD	UART0_TXD	CP2104 - TXD			
GPIO4	GPIO/I2C1_SCL	SD_Card - CD/DAT3	ip5306 - SCL		
GPIO5	(Strapping)	not use			
GPIO6/SD_CLK	SPI_FLASH/SPI_PSRAM	GD25Q32C - CLK			
GPIO7/SD_DATA_0		GD25Q32C - DO	ESP-PSRAM16H - SO/SIO[1]		
GPIO8/SD_DATA_1		GD25Q32C - DI	ESP-PSRAM16H - SI/SIO[0]		
GPIO9/SD_DATA_2		GD25Q32C - HLOD	ESP-PSRAM16H - SIO[3]		
GPIO10/SD_DATA_3		GD25Q32C - WP	ESP-PSRAM16H - SIO[2]		
GPIO11/SD_CMD		GD25Q32C - CS			
GPIO12/MTDI	(Strapping)	not use			
GPIO13/MTCK	I2C1_SDA	ip5306 - SDA			
GPIO14/MTMS	GPIO	LCD - CS			
GPIO15/MTDO	(Strapping)	not use			
GPIO16	SPI_PSRAM	ESP-PSRAM16H - CE			
GPIO17		ESP-PSRAM16H - SCLK			
GPIO18	SPI1_CLK	SD_Card - CLK	LCD - SCK		
GPIO19	SPI1_MISO	SD_Card - DAT0			
GPIO21	I2C0_SDA	I2C_PORT - SDA	Touch panel - SDA	BMM150 - SDA	MPU6886 - SDA/SD
GPIO22	I2C0_SCL	I2C_PORT - SCL	Touch panel - SCL	BMM150 - SCL	MPU6886 - SCL/SC
GPIO23	SPI1_MOSI	SD_Card - CMD	LCD - MOSI		
GPIO25	DAC1	SPEAKER - INP			
GPIO26		not use			
GPIO27	GPIO	LCD - DC			
GPIO32/32K_XP	GPIO	LCD - BL			
GPIO33/32K_XN	GPIO	LCD - RST			
GPIO34/VDET_1	(input only)	not use			
GPIO35/VDET_2	(input only)	not use			
GPIO36/SENSOR_VF	(input only)	not use			
GPIO37/SENSOR_CA	GPIO(input only)	Touch panel - INT			
GPIO38/SENSOR_CA	GPIO(input only)	Touch panel - RST			
GPIO39/SENSOR_VN	(input only)	not use			

Green means that the pin leads to the bottom board.

(Strapping) See ESP32 data sheet for details

(input only) IO Unable to set to output mode

device type	
device	type
MCU	ESP32-D0WDQ6
PSRAM	ESP-PSRAM64H
FLASH	GD25Q32C
USB-TTL	CP2104
Gyroscope	MPU6886
Magnetometer	BMM150
2"LCD 320*240	ILI9342C
Touch Screen	FT6336U
Power management	IP5306(I2C)
Battery	3.7V 150MA

I ² C device address	
I ² C device	addr
ft6336	0X38
MPU6886	0x68
BMM150	0x10
ip5306(I2C)	0x75