Rubik Unit-1 IO tabel

pin name	function	device		
IO0	GPIO(Strapping)	not use		
U0TXD/IO1	UART0_RXD	CH552T - RXD		
IO2	(Strapping)	not use		
U0RXD/IO3	UART0_TXD	CH552T - TXD		
U0RXD/IO4	GPIO	MIC - CLK		
IO5	GPIO(Strapping)	not use		
CLK/IO6				
SD0/IO7	GPIO	SH1107 - CS		
SD1/IO8	GPIO	SH1107 - RES		
SD2/IO9				
SD3/IO10				
CMD/IO11				
MTDI/IO12	(Strapping)	not use		
MTCK/IO13		HY2.0 Port_1		
MTCK/IO14		HY2.0 Port_1		
MTDO/IO15	(Strapping)	not use		
IO19		HY2.0 Port_2		
IO20		not use		
IO21	I2C_SDA	SH1107 - D0	BM8563 - SDA	MPU6886 - SDA/SDI
IO22	I2C_SCL	SH1107 - D1	BM8563 - SCL	MPU6886 - SCL/SCLK
IO33	GPIO	Buzzer		
IO26		not use		
IO27		not use		
VDET_1/I32	GPIO	LED - IR		
VDET_1/I34	(input only)	not use		
VDET_2/I35	(input only)	not use		
SENSOR_VP/I36	GPIO(input only)	MIC - DATA		
SENSOR_CAPP/I37	GPIO(input only)	Virtual button		
SENSOR_CAPN/I38	(input only)	HY2.0 Port_2		
SENSOR_VN/I39	GPIO(input only)	BM8563 - INT	AXP192 - IRQ	

Green means that the pin leads to the extern
(Strapping)See ESP32 data sheet for details
(input only)IO Unable to set to output mode

device

device	type
MCU	ESP32-PICO-V3-02
USB-TTL	CH552T
RTC	BM8563
Gyroscope	MPU-6886
LCD	SH1107
Power_management	AXP192

I²C device address

I²C device	addr
MPU6886	0X68
BM8563	0X51

AXP192	0X34

AXP192 – SDA
AXP192 – SCL