Lolin32 Lite pinout

34

GPIO: General Purpose Input Output
ADC: Analog to Digital Converter
DAC: 8 bits Digital to Analog Converter
RTCIO:(RTC_GPIO) Real Time Clock GPIO
EMAC: Signals of the Ethernet Media Access Controller
SD: Signals of the SDIO slave
HS1: Port 1 signals of the SDIO host
HS2: Port 2 signals of the SDIO host
MT: signals of the JTAG
U0: Signals of the UART0 module
U1: Signals of the UART1 module
SPI: Signals of the SPI1 (Serial Peripheral Interface) module
HSPI: Signals of the SPI2 module
VSPI: Signals of the SPI3 module
Touch: Capacitive Sensor Touch

Legend	
Power	(red)
GND	(black)
Serial Pin	(light blue)
Analog Pin	(green)
Control	(yellow)
Physical Pin	(gray)
Port Pin	(tan)
Touch Pin	(pink)
DAC Pin	(orange)
PWM Pin	(waveform)

LED BUILT_IN
LED CHARGING BAT

Left side pins

						Pin	
RTCIO 0	SensVP	ADC H	ADC1 0	GPI 36*	5	VP	
RTCIO 3	SensVN	ADC H	ADC1 3	GPI 39*	8	VN	
		CHIP PU			9	EN	
RTCIO 4	VDET 1		ADC1 6	GPI 34*	10	34*	
RTCIO 5	VDET 2		ADC1 7	GPI 35*	11	35*	
RTCIO 9	Xtal32P	Touch 9	ADC1 4	GPIO32	12	32	
RTCIO 8	Xtal32N	Touch 8	ADC1 5	GPIO33	13	33	
EMAC RXD0	RTCIO 6	DAC 1	ADC2 8	GPIO25	14	25	
EMAC RXD1	RTCIO 7	DAC 2	ADC2 9	GPIO26	15	26	
EMAC RXDV	RTCIO17	Touch 7	ADC2 7	GPIO27	16	27	
SD CLK	HS2CLK	EMAC TXD2	HSPICLK	RTCIO16	MT MS	Touch 6	ADC2 6	GPIO14	17	14
SD D2	HS2D2	EMAC TXD3	HSPI Q	RTCIO15	MT DI	Touch 5	ADC2 5	GPIO12	18	12
						GND	G

Right side pins

3V → 3v3
LED BUILTIN

Pin										
22	39	GPIO22	VSPIWP	U0RTS	EMAC TXD1	WIRE SCL				
19	38	GPIO19	VSPI Q	U0CTS	EMAC TXD0	SPI MISO				
23	36	GPIO23	HS1STR	VSPI D		SPI MOSI				
18	35	GPIO18	HS1 D7	VSPICLK		SPI SCK				
5	34	GPIO 5	HS1 D6	VSPICS0	EMAC RXCLK	SPI SS				
17	27	GPIO17	HS1 D5	U2TXD	EMAC CO180					
16	25	GPIO16	HS1 D4	U2RXD	EMAC CLKOUT					
4	24	GPIO 4	ADC2 0	Touch 0	HS2 D1	HSPIHD	SD D1	EMAC TXER	RTCIO10	
0	23	GPIO 0	ADC2 1	Touch 1	CLK 01			EMAC TXCLK	RTCIO11	
2	22	GPIO 2	ADC2 2	Touch 2	HS2 D0	HSPIWP	SD D0		RTCIO12	
15	21	GPIO15	ADC2 3	Touch 3	HS2CMD	HSPICS0	SDCMD	EMAC RXD3	RTCIO13	MT D0
13	20	GPIO13	ADC2 4		HS2 D3	HSPI D	SD D3	EMAC RXD3	RTCIO 4	MT CK

BAT + −
EN
USB

LOLIN32 Lite
ESP32
FLASH
Charge
RST