



Software Selectable Pins

Interface	Signal	Pin
EMAC	EMAC_MDIO_out	Any GPIO
	EMAC_MDI_in	Any GPIO
	EMAC_MDO_out	Any GPIO
	EMAC_CRS_out	Any GPIO
I2C	I2CXTA_SCL_in	Any GPIO
	I2CXTA_SDA_in	Any GPIO
	I2CXT1_SCL_in	Any GPIO
	I2CXT1_SDA_in	Any GPIO
General Purpose SPI	HSPICL_in_out	Any GPIO
	HSPICL0_in_out	Any GPIO
	HSPICL1_in_out	Any GPIO
	VSPICL_in_out	Any GPIO
	VSPICL0_in_out	Any GPIO
	VSPICL1_in_out	Any GPIO
	VSPICL2_in_out	Any GPIO
	VSPICL3_in_out	Any GPIO

Mounting Holes

MH2, MH3

Internal Bootstrapping Resistors

MTDI/GPIO12:	Pull-Down
GPIO0:	Pull-Up
GPIO2:	Pull-Down
GPIO4:	Pull-Down
MTDO/GPIO15:	Pull-Up
GPIO5:	Pull-Up

Bootstrapping Pins Settings

Pin	Default	Voltage of Internal (IO(VDD_IO))	1.8V	1.8V
GPIO2/MTDI	Pull-Down	0	1	1
Bootling Mode				
Pin	Default	SPI Flash Boot	Download Boot	Download Boot
GPIO0	Pull-Up	0	0	0
GPIO2	Pull-Down	Don't-care	0	0
Debugging Log on UOTXD During Bootling				
Pin	Default	UOTXD Toggling	UOTXD Silent	UOTXD Silent
GPIO15/MTDO	Pull-Up	1	0	0
Timing of SDO Slave				
Pin	Default	Falling-edgeOutput	Rising-edgeOutput	Rising-edgeOutput
GPIO15/MTDO	Pull-Up	0	1	1
GPIO5	Pull-Up	0	1	1

For more information refer to esp-wroom-32.datasheet.cn.pdf.