

Chip	IO to Chip	IO Details	GPIO #	I/O	Physical #	Name	RTC/ULP #	Additional Notes
ESP32D0WDQ6	USB Serial	(Set Serial Boot For Flashing)	0	I	23		RTC_GPIO11	
	USB Serial	TTL TX	1	O	41	GPIO1	/	
	None		2	I/O	22	GPIO2	RTC_GPIO12	Added Amber LED 20kR to GND
	USB Serial	TTL RX	3	I	40	GPIO3	/	
	Vibe	Vibe Motor	4	O	24	GPIO4	RTC_GPIO10	Transistor Driver?
	TFT	TFT SPI CS	5	O	34	GPIO5	/	
	TFT	TFT BL	12	O	18	MTDI	RTC_GPIO15	Transistor Driver?
	IR	IR Tx LED	13	O	20	MTCK	RTC_GPIO14	Likely Transistor Driver, No current limiting, <b>GETS HOT</b> if left on >0.2s
	None		14	I/O	17	MTMS	RTC_GPIO16	
	None		15	I/O	21	MTDO	RTC_GPIO13	
		Flash/PSRAM	16	*	25	GPIO16	/	
	TFT	TFT SPI CLK	18	O	35	GPIO18	/	
	TFT	TFT SPI MOSI	19	O	38	GPIO19	/	
	Accel.	I2C SDA	21	I/O	42	GPIO21	/	Shared with PMU, External RTC
	Accel.	I2C SCL	22	I/O	39	GPIO22	/	Shared with PMU, External RTC
	External RTC	I2C SDA	21	I/O	42	GPIO21	/	Shared with Accel., PMU
	External RTC	I2C SCL	22	I/O	39	GPIO22	/	Shared with Accel., PMU
	PMU	I2C SDA	21	I/O	42	GPIO21	/	Shared with Accel., External RTC
	PMU	I2C SCL	22	I/O	39	GPIO22	/	Shared with Accel., External RTC
	Touch	Touch I2C SDA	23	I/O	36	GPIO23	/	
	Audio	I2S WS	25	O	14	GPIO25	RTC_GPIO06	
	Audio	I2S BCK	26	O	15	GPIO26	RTC_GPIO07	
	TFT	TFT DC	27	*	16	GPIO27	RTC_GPIO17	
	Touch	I2C SCL	32	I/O	12	32K_XP	RTC_GPIO9	
	Audio	I2S Dout	33	I/O	13	32K_XN	RTC_GPIO8	
	None		34	I	10	VDET_1	RTC_GPIO4	Light sensor (Vcc:1Meg Ohm<GPIO34>Photodiode:GND)
	PMU	AXP202 Int.	35	I	11	VDET_2	RTC_GPIO5	
	External RTC	Ext. RTC Int.	37	I	6	SENSOR_CAPP	RTC_GPIO1	
	Touch	Touch Int.	38	I	7	SENSOR_CAPN	RTC_GPIO2	
	Accel.	BMA423 Int.	39	I	8	SENSOR_VN	RTC_GPIO3	

Type	Chip ID	Bus
PMU	APX202	I2C-1
Touch	FT6236	I2C-2
Accel.	BMA423	I2C-1
TFT	ST7789V	SPI
External RTC	PCF8563	I2C-1

Connected to:	IO Details	I/O	Physical Pin #	Pin Name	Notes
ESP32	I2C SDA	I/O	1	SDA	
ESP32	I2C SCL	I/O	2	SCK	
None		I/O	3	GPIO3	
None		I/O	5	GPIO2	
????		I/O	18	GPIO1	????? Might be used, code reads from this...
None	Charging Indicator Led	O	36	CHGLED	Connected to white led through 1k resistor to IPSOUT
None	ACINPUT +	PWR In	32, 33	ACIN	
Audio	Max98357a Power	PWR Out	41	LDO3	
None		?	20	EXTEN	
None		PWR Out	10	DCDC2	
None		PWR Out	11	LDO4	
ESP32		O	48	IRQ	
ESP32		PWR Out	12	LDO2	
Button	Power Button Short/Long Press	I	47	PWRON	Active Low

PMU	APX202	I2C-1
Touch	FT6236CMA	I2C-2
Accel.	BMA423	I2C-1
TFT	ST7789V	SPI
External RTC	PCF8563	I2C-?
Audio	MAX98357A	I2S
Vibe	Motor	GPIO
IR Tx LED	LED	GPIO