M5Stack Ecosystem

ESP32 and ATMEGA328

		Device							SoC				Display				
											MB	MB					MI CL CS DC RST BL
									SoC Var		Memory						SPI
Item	Dev Type	Device Name	Dev Pic	-D Name	M	CE	Lego	MPU	Var	FLASH	PSRAM		Type	Tech	Res	GPIO	
1	M5Stack	M5Core Basic	Core	M5STACK	Y	Y	N	ESP32	WROOM32	4	-		ILI9341	TFT LCD	320x240	19,18,14,27,33,32	
5	M5Stack	M5Core Gray	Core	o	Y	N	N	ESP32	discrete	4	4		ILI9341	TFT LCD	320x240	19,18,14,27,33,32	
5	M5Stack	M5Core Gray	Core	o	Y	Y	N	ESP32	WROVER	4	-		ILI9341	TFT LCD	320x240	19,18,14,27,33,32	
4	M5Stack	M5Core Fire	Core	M5STACK_FIRE	Y	Y	N	ESP32	WROVER	16	4		ILI9341	TFT LCD	320x240	19,18,14,27,33,32	
5	M5Stack	M5Core Fire	Core	M5STACK_FIRE	Y	Y	N	ESP32	WROVER	16	4		ILI9341	TFT LCD	320x240	19,18,14,27,33,32	
6	M5Stack	M5GO White	Core	o	Y	Y	N	ESP32	WROVER	16	-		ILI9341	TFT LCD	320x240	19,18,14,27,33,32	
11	M5Stick	M5Stick white	MiniCore	o	Y	N	N	ESP32	WROOM32	4	-		SSD1306	OLED	64x128	-,-,14,27,33,-	
12	M5Stick	M5Stick gray	MiniCore	o	Y	N	N	ESP32	WROOM32	4	-		SSD1306	OLED	64x128	-,-,14,27,33,-	
13	M5Stick	M5Camera A	Camera	M5Camera	N	N	Y	ESP32	WROVER	4	4		-	-	-	-	
13	M5Stick	M5CameraX	Camera	M5CameraX	N	Y	Y	ESP32	WROVER	4	4		-	-	-	-	
13	M5Stick	M5CameraF	Camera	M5CameraF	N	Y	Y	ESP32	WROVER	4	4		-	-	-	-	
14	M5Stick	ESP32CAM	Camera	ESP32CAM	N	N	N	ESP32	discrete	4	-		-	-	-	-	
21	M5Stack	M5CORE Bottom	Bottom	o	N	-	N	-	-	-	-		-	-	-	-	
22	M5Stack	M5GO Base	Bottom	o	N	-	Y	-	-	-	-		-	-	-	-	
23	M5Stack	M5GO RFID	Bottom	o	N	-	Y	-	-	-	-		-	-	-	-	
24	M5Stack	M5GO CHG	Bottom	o	N	-	N	-	-	-	-		-	-	-	-	

Description

optional
TBC
OK

TF Card	Battery							Interfaces			POGO		Grove Connector A		B		C		LED		Neopixels	
MO MI CL CS	PMIC	I2C	SDA,SCL	mAh				USB			SDA	SCL	SDA	SCL	GPIO		TXD	RXD				Actu
GPIO	Type	Adr	I2C	Cap	Loc	Con	LED	USB-C	Type	MBUS	SDA	SCL	SDA	SCL	GPIO	GPIO	TXD	RXD	Col	GPIO	Type	GPIO
23,19,18,4	IP5306	-	-	-	Int	Y	-	Y	CP2104	Y	-	-	21	22	-	-	-	-	-	-	-	-
23,19,18,4	IP5306	o	o	-	Int	Y	-	Y	CP2104	Y	-	-	21	22	-	-	-	-	-	-	-	-
23,19,18,4	IP5306	o	o	-	Int	Y	-	Y	CP2104	Y	-	-	21	22	-	-	-	-	-	-	-	-
23,19,18,4	IP5306	0x75	21,22	-	Int	Y	-	Y	CP2104	Y	-	-	21	22	-	-	-	-	-	-	-	-
23,19,18,4	IP5306	0x75	21,22	-	Int	Y	-	Y	CP2104	Y	-	-	21	22	-	-	-	-	-	-	-	-
23,19,18,4	IP5306	o	o	-	Int	Y	-	Y	CP2104	Y	-	-	21	22	-	-	-	-	-	-	-	-
-	IP5306	o	o	80	Int	Y	-	Y	CP2104	N	-	-	13	25	-	-	-	-	Blue	19	-	-
-	IP5306	o	o	80	Int	Y	-	Y	CP2104	N	-	-	13	25	-	-	-	-	Blue	19	-	-
-	-	-	-	-	Ext	N	-	Y	CP2104	N	-	-	13	12	-	-	-	-	Red	14	-	-
-	-	-	-	80	Int	o	-	Y	CP2104	N	-	-	4	13	-	-	-	-	Red	14	-	-
-	-	-	-	80	Int	o	-	Y	CP2104	N	-	-	4	13	-	-	-	-	Red	14	-	-
-	IP5306	o	o	-	Ext	N	-	Y	CP2104	N	-	-	13	4	-	-	-	-	Red	16	-	-
-	-	-	-	150	Int	Y	-	N	-	Y	-	-	-	-	-	-	-	-	-	-	-	-
-	o	-	-	600	Int	N	Red	N	-	Y	21	22	-	-	26	36	17	16	-	-	SK6812	15
-	o	-	-	370	Int	N	Red	N	-	Y	21	22	-	-	26	36	17	16	o	o	SK6812	15
-	-	-	-	-	-	-	-	Y	-	N	21	22	-	-	-	-	-	-	-	-	-	-

IR Trans		Audio		Button				Camera		Gyro, Accel						Microphone			Hu...
										I2C	SDA,SCL		I2C	SDA,SCL		Analog	D,CL		
ator										Sensors									
Type	GPIO	Type	GPIO	A	B	C	RST	Type	Res	Type	Addr	I2C	Type	Addr	I2C	Type	GPIO	PDM	Type
-	-	Speaker	25	39	38	37	PWR	-	-	-	-	-	-	-	-	-	-	-	-
-	-	Speaker	25	39	38	37	PWR	-	-	MPU9250	0x68	21,22	-	-	-	-	-	-	-
-	-	Speaker	25	39	38	37	PWR	-	-	MPU9250	0x68	21,22	-	-	-	-	-	-	-
-	-	Speaker	25	39	38	37	PWR	-	-	MPU6050	0x68	21,22	MAG3110	0x0E	21,22	-	-	-	-
-	-	Speaker	25	39	38	37	PWR	-	-	MPU9250	0x68	o	-	-	-	-	-	-	-
-	-	Speaker	25	39	38	37	PWR	-	-	o	o	o	-	-	-	-	-	-	-
IR38	17	Buzzer	26	35	-	-	PWR	-	-	-	-	-	-	-	-	-	-	-	-
IR38	17	Buzzer	26	35	-	-	PWR	-	-	MPU9250	0x68	21,22	-	-	-	-	-	-	-
-	-	-	-	-	-	-	EN	OV2640	640x480	MPU6050	0x68	22,23	-	-	-	SPM1423	-	2, 4	BME280
-	-	-	-	-	-	-	o	OV2640	640x480	MPU6050	0x68	22,23	-	-	-	SPM1423	-	2, 4	BME280
-	-	-	-	-	-	-	o	OV2640	640x480	MPU6050	0x68	22,23	-	-	-	SPM1423	-	2, 4	BME280
-	-	-	-	-	-	-	PWR	OV2640	800x600	MPU6050	0x68	13,4	-	-	-	SPQ2410	-	32	BME280
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BSE3729	34	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BSE3729	34	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

m/Temp		RFID
I2C	SDA,SCL	

Addr	I2C	GPIO
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
0x77	22,23	-
0x77	22,23	-
0x77	22,23	-
0x76	13,4	-
-	-	-
-	-	-
-	-	o
-	-	-