

smartGuard

작성일: 230327

Qty	Ref Des	Value	Package	ICs	Description
1	R2, R24	2K (5%)	0402	Resistor	Chip Resistors
1	D1	RED LED	0603	Diode	light-emitting diode: Red
3	C1, C3, C21	22 uF/10V (20%)	0603	Capacitor	Ceramic Capacitor
1	U2	AMS1117-3.3	SOT-223	Power ICs	LDO, 5V/3.3V, 1A, SOT-223
1	D2	ESP-WROOM-32	ESP32_MODULE	Module	ESP32-WROOM-32D (32 Mbit)
8-10	R11, R21, R22, R23, R?, R?, R?, R?, R?	10K (5%)	0402	Resistor	Chip Resistors
8	C9, C22, C14, C15, C19, C?, C?, C?	0.1 uF/50V (10%)	0402	Capacitor	Ceramic Capacitor
2	SW1, SW2	SW push button	Tact Switch	Tact Switch	reset button, 2-pin, 3x4x2, SMT
2	J2, J3	CON19X1_2P54	CON19_2P54	Connector	Male PCB Single Row Straight Header Connector, 2.54 mm Pitch, 19 Pins
1	J1	Micro USB Type B Female 5 Pin DII	USB_5P	Connector	Micro USB
1	D3	BAT760-7	SOD323	Diode	Schottky Diode, Vrrm=30V, Vr=21V, I=1A, IFSM=5.5A
3	D4, D5, D6	LESD5D5.0CT1G	SOD-523	Diode	ESD, TVS Diode, 5V
2	R17, R18	0R (5%)	0402	Resistor	Chip Resistors
2	Q1, Q2	S8050	SOT-23-3	Transistor	Transistor
1	U1	CP2102N-A01-GQFN28	CP2102_QFN_28P	Interface ICs	USB-to-UART, USB2.0 full speed, data rate up to 3M baud
1-2	C20, C?	4.7 uF/6.3V (10%)	0402	Capacitor	Ceramic Capacitor
1	R25	22.1K (5%)	0402	Resistor	Chip Resistors
1	R26	47.5K (5%)	0402	Resistor	Chip Resistors
1	C?	10 uF/50V (10%)	0402	Capacitor	Ceramic Capacitor
1	U?	MIC5205-3.3BM5	SOT-223	Power Ics	LDO, 5V/3.3V, 1A, SOT-223
2	U?, U?	BSS138		FET	FET for I2C Signal Level Shift (3.3V 직접 입력하므로 5V Pull-up 불필요)
1	C?	0.01 uF/50V (10%)	0402	Capacitor	Ceramic Capacitor
1	C?	2200 pF/50V (10%)	CAP	Capacitor	Ceramic Capacitor
1	U?	MPU6050	MPU Module	Module	IMU Sensor