

Master GOTEK Board BOM

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C1	10uF/16V	Electrolytic capacitor			1
C2,4,5,8,9	100nF	Ceramic capacitor			5
C3	2u2/16V	Tantalum bead capacitor			1
C6,7	22pF	Ceramic capacitor			2
IC1	STM32F105RBT6	32-bit ARM processor			1
IC2	74AHCT08	Quad AND gate			1
IC3	AP7381-33V-A	3V3 LDO regulator			1
LK1	2-pin 0.1" header	BOOT0 link			1
PL1	10-pin 0.1"	Right angle header	User Interface		1
PL2	3-pin 0.1"	Straight header	GOTEK Program Port - connect to FTDI for programming		1
PL3	2-pin 0.1"	Straight header or flying wire	Power input		1
PL4	2-pin 0.1"	Straight header or flying wire	Sound output		1
R1,4	4K7	250mW resistor			2
R2,3	22	250mW resistor			2
R5	1K0 x 6	SIL resistor pack		Bourns 4607X-101-102LF	1
SK1	34-way socket		FITTED ON THE PCB UNDERSIDE	e.g. 3M 929975-01-17-RK	1
VR1	10K	Preset resistor		Spectrol 62-1-1	1
X1	8MHz	Crystal HC49u			1
IC2	14-pin	DIL socket			1

Offboard Parts

	34-way	Double row pin header	Master PL2		1
	17-way	Single row pin header	Master PL7		1
		Rotary encoder with switch and knob			1
	0.91"	OLED display			1
	USB Socket				1
		3D Printed Panel		Thingiverse Thing:3408888	1
	10-way	0.1" Header with 50cm ribbon cable		eBay	1