Parts guide for the Arduino Uno 8x1 multiplexer shield printed circuit board

Schematic ID	Part	Value	Vendor	Vendor Part Number
C1	Capacitor	100uF	DigiKey	P5152-ND
C2	Capacitor	10uF	DigiKey	P14482-ND
C3	Capacitor	220nF (0.22uF)	DigiKey	445-2849-ND
D1	Diode	50V / 1A	DigiKey	1N4001FSCT-ND
F1	Polyswitch	0.2A	DigiKey	RXEF020-ND
Error	Red LED	3mm	DigiKey	754-1218-ND
On/Off	Yellow LED	3mm	DigiKey	754-1220-ND
Run	Green LED	3mm	DigiKey	754-1217-ND
IC1	Voltage regulator	5V	DigiKey	LM7805CT-ND
IC2	Multiplexer	4051BE 8x1	DigiKey	296-2057-5-ND
IC3	Voltage reference	Ref02 5V	DigiKey	REF02CPZ-ND
ICSP	Header	2x3	DigiKey	3M9459-ND
S1	Tactile switch	24V, 0.05A	DigiKey	SW400-ND
S2	Slide switch	30V, 0.2A	DigiKey	EG1903-ND
ST1	Screw terminal	1x12	DigiKey	A98043-ND
ST2	Screw terminal	1x12	DigiKey	A98043-ND
Board PWR	Power jack	2.1mm	DigiKey	CP-102A-ND
R0	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R1	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R2	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R3	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R4	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R5	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R6	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R7	Resistor	100K, 1/4W, 1%	DigiKey	RNF14FTD100KCT-ND
R8	Resistor	10K, 1/4W, 1%	DigiKey	RNF14FTD10K0CT-ND
R9	Resistor	1K, 1/4W, 5%	DigiKey	CF14JT1K00CT-ND
R10	Resistor	100K, 1%	DigiKey	RNF14FTD100KCT-ND
R11	Resistor	100K, 1%	DigiKey	RNF14FTD100KCT-ND
R12	Resistor	100K, 1%	DigiKey	RNF14FTD100KCT-ND
R13	Resistor	1K, 1/4W, 5%	DigiKey	CF14JT1K00CT-ND
R14	Resistor	1K, 1/4W, 5%	DigiKey	CF14JT1K00CT-ND
R15	Resistor	10K, 1/4W, 1%	DigiKey	RNF14FTD10K0CT-ND
R16	Resistor	4.7K, 1/4W, 1%	DigiKey	RNF14FTD4K75CT-ND
	IC Socket	16 position (8x2)	DigiKey	A100206-ND
	IC Socket	8 position (4x2)	DigiKey	A100204-ND

Additional parts required for the project

Stackable header kit x 2	2x8Pin, 2x6Pin	SparkFun	PRT-10007
Arduino Uno R3		SparkFun	DEV-11021
Adafruit data logging shield		Adafruit	ID: 1141

Vendors

DigiKey: www.digikey.com
SparkFun: www.sparkfun.com
Adafruit: www.adafruit.com