

# Component list

## Bill of Materials For PCB Document [rDUINOScope-V1.3.PcbDoc]

Footprint	Quantity	Designator	Part description	Manufacturer	Manufacturer PN	Unit Price1	Total Price (\$)
Socket-2032	1	BAT1	Socket with lithium cell CR-2032				0
C1608(0603)	11	C1, C2, C3, C4, C5, C6, C12, C13, C14, C15, C16	Ceramic Capacitor 100nF / X5R				0
C1608(0603)	2	C8, C9	Ceramic Capacitor 2,2µF / 6,3V / X5R				0
C2012(0805)	2	C10, C11	Ceramic Capacitor 10µF / 16V / X5R				0
Fuse 2016L150	2	F1, F2	Fuse 15V / 1,5A with auto-reset				0
Joystick	1	J1	Joystic				0
R1608(0603)	5	R1, R4, R12, R13, R14	Resistor 10 kΩ				0
R1608(0603)	1	R2	Resistor 33 Ω				0
R1608(0603)	1	R2a	Resistor 51 Ω				0
R1608(0603)	1	R3	Resistor 0 Ω (see Schematics comment!)				0
R1608(0603)	1	R5	Resistor 100 kΩ				0
R1608(0603)	1	R7	Resistor 200 kΩ				0
R5025(2010)	4	R8, R9, R10, R11	Resistor 0,25 Ω (current sensing!)				0
R1608(0603)	4	R15, R16, R17, R18	Resistor 4,7 kΩ				0
MicroSD-Socket	1	SD1	Socket for MicroSD Card				0
TFT-3.2INCH	1	TFT1	TFT Display 3,2 Inch / 240x400 pixel				0
HC-06	1	U1	Bluetooth Modul				0
DS-3231	1	U2	Real Time Clock Chip				0
XPT2046 (TSSOP-16)	1	U3	Touch Controller Chip XPT2046				0
U-Blox-GPS	1	U4	GPS Modul				0
DHT22-G	1	U5	Humidity Sensor				0
DRV8846RGE	2	U6, U7	Stepper Mpotor Driver Chip	Texas Instruments			0
LED_0603-BLUE	1	V1	Blue LED	Kingbright			0
HW-S-SMT-8	5	X1, X2, X3, X4, X5	8 Pin Connector (HW-08-09-G-S-450-SM-A)	Samtec			0
HW-S-SMT-10	1	X6	10 Pin Connector (HW-10-09-G-S-450-SM-A)	Samtec			0
HW-S-SMT-18x2	1	X7	36 Pin Connector (HW-18-09-G-D-450-SM-A)	Samtec			0
ESW-103-34-G-D-LL	1	X8	6 Pin Receptacle (ESW-103-34-G-D-LL)	Samtec			0
HDR2X8	2	X9, X10	16 Pin Connector (ZW-08-15-G-D-472-078)	Samtec			0
HDR1X3	12	XP1_DE, XP1_RA, XP2_DE, XP2_RA, XP3_DE, XP3_RA, XP4_DE, XP4_RA, XP5_DE, XP5_RA, XP6_DE, XP6_RA	3 Pin Conector for Jumper settings				0
HDR1X5-RA - JST	2	X_DE, X_RA	5 Pin Connector for Stepper Motors	JST			0