

Ardu-ENC BOM English

Part	Description	Reichelt	Farnell	Digikey	Conrad	Miscellaneous
U1	I ² C Portexpander PCF8574N	PCF 8574 N		296-13109-5-ND		
RN1, RN2, RN3, RN4, RN5, RN6	Resistor network, bussed resistors, 4x 10k	SIL 5-4 10K		4605X-101-103LF-ND		L051S103
C6	100nF, RM2.5, THT	X7R-2,5 100N		BC1084CT-ND		
J1	Pinheader 2x5-pin	MPE 087-2-010				SL 2X40G 2,54
J-ENC ...	Pinheader, 1x5-pin	SL 1X40G 2,54				
POWER, ANALOG-1 DIGITAL-L, DIGITAL-H J-A6	Pinheader, single row	SL 1X40G 2,54				only for Shield
PCB	Printed circuit board ARDU-ENC 1.0					
Additional for Controller-Version						
U2	ATMega AVR RISC, 32 KB, 20 MHz, TQFP-32	ATMEGA 328P-AU		ATMEGA328P-AU		
C1	10µF, 25V, 0805	MUR GRM21BR61E10				
C2, C3, C4, C5	100nF, 16V 0603	X7R-G0603 100N				
X1	SMD Resonator 16.0 MHz,	CSTCE 16,0		490-17949-1-ND		CSTNE16M0V53C000R0
S1	SMD tactile switch	KMR 231 G LFS		CKN10246CT-ND		
J2	Micro USB socket vertical THT		2443141	732-5958-2-ND ??		Farnell 2365803 2537022
FTDI	Pinheader, 1x6-pin	SL 1X40G 2,54				
For extension modul Port Expander for Switches						
R1	Resistor 0R0, 0603					Powersupply 5P
SCL-SDA-5P-GND J-A6	Pinheader, 1x5-pin					Connection to the extension board
	Crimp contacts					
	Crimp contact sleeves 4-polig					
	Wire ends AWG28					
For connection of Ethernet-Modul and rotary encoders						
	10-pin IDC socket 2x5-pin	PFL 10				
	Flat ribbon cable AWG 28, 10-pin	AWG 28-10G				
	Ethernet Modul WizNET W5500					https://www.banggood.com/W5
	Sockets 2.54 mm, 1X05, straight	MPE 094-1-005				
	11mm Rotary Encoder + Keypswitch, 20 pulses / 20 dents			EN11-HSB1AF20-ND		https://www.ebay.de/itm/28069
	Knopf CR-R4-6 oder CR-R4-7		1440011 1440012			grau-schwarz schwarz-weiß
	Crimp contacts					
	Crimp contact sleeves 5-pin					
	Wire ends AWG28					