

Ardu-FRQ BOM English

Part	Description	Value	Reichelt	Farnell	Digikey	Conrad	Miscellaneous
U1	IC-Socket, 24-pin, double spring contact		GS24		ED3051-5-ND	1304146 189561	
S1, S2, S3	Pushbutton MEC 3FTL6 oder 3FTH9		TASTER 3FTH9		679-3730-5-ND	705268 - 62	
	Cap black, 1P09			1132893	679-2107-ND		
	Cap grey, 1P03				679-2105-ND		
ENC1	11mm Rotary Encoder + Keyswitch, 20 pulses / 20 dents	EN11-HSB1AF20			EN11-HSB1AF20-ND		https://www.ebay.de/itm/280693301091?_trks
	Knob CR-R4-6 oder CR-R4-7			1440011 1440012			grey-black black-white
Alternative encoder with two shafts							
ENC1	11mm rotary encoder, two shafts, PushButton	EC11EBB24C03		2065025			AliExpress
	Knobs for both shafts, 3D print						https://www.thingiverse.com/thing:4245135
J1, J3	Pinheader 2x5		2X40G 2,54				
J2	Pinheader 1x2		2X40G 2,54				
J4	Micro USB Connector, vertical, THT			2443141	732-5958-2-ND ??	Farnell 2365803 2537022	
	Only necessary when supplied with USB cable						
	Printed circuit board ARDU-FRQ 1.1						https://aisler.net/p/WGUIFXPT
	Pin socket 2x5pin (2 pc.)		PFL 10				
	Flat ribbon cable AWG 28, 10-pin (30 cm)		AWG 28-10G				
	Ethernet Modul WizNET W5500						https://www.banggood.com/W5500-Ethernet-M
	LCD Modul 2x16 character, I ² C						https://www.banggood.com/IIC-I2C-1602-Blue-
	Arduino Pro Mini, 5V, 16 MHz						https://store.arduino.cc/arduino-pro-mini
Only if ENC28J60-Module is used (not recommended)							
U2	Voltage regulator LDO (optional for)		ZLDO 330 T8TA		ZLDO330T8TR-ND		
C1	SMD Capacitor 0603, 10pF (optional)	10pF	RND 150MT18N1002				
C2	SMD Capacitor 1206, 2,2µF (optional)	2,2µ	RND 1501206B2252				