

Components for LabInt32 PCB, Version 1.1

Labels	QTY	Item	Package	Supplier	Part #
C5 C7	2	0.01 μ F	2PIN::H/100/100	Digi-Key	399-4147-ND
C1-C3, C6, C14-C15	6	0.1 μ F	2PIN::H/100/100	Digi-Key	399-4264-ND
C8	1	0.33 μ F	2PIN::H/100/100	Digi-Key	399-4299-ND
C12	1	1 μ F	2PIN::H/100/100	Digi-Key	445-8410-ND
C4 C11	2	10 μ F	2PIN::H/100/100	Digi-Key	445-8286-ND
C9	1	22 μ F	2PIN::H/100/100	Digi-Key	478-1874-ND
C10, C13, C16	3	0.1 μ F SMD	2SMT::0603-1608	Digi-Key	490-1519-1-ND
C17	1	1 μ F SMD	2SMT::0603-1608	Digi-Key	445-1604-1-ND
D2	1	green LED	2PIN::H/100/100	Digi-Key	67-1070-ND
D1	1	red LED	2PIN::H/100/100	Digi-Key	67-1071-ND
J7 J9 J13	3	*	2PIN::H/100/100	N/A	
J15-J16	2	Aux. switch conn.	(for customizing)	N/A	
J1	1	Serial I/O conn.	(for display/customizing)	N/A	
J2 J5	2	1X10 screw terms.	(optional)	Digi-Key	277-1255-ND
J3	1	Programming hdr	CON_HDR::1x6	Digi-Key	WM4004-ND
J4	1	rot. encoder jack	(optional)	N/A	
J6	1	V+ Selection	CON_HDR::1x4	N/A	
J8 J11 J14	3	SMA	(optional)	Digi-Key	J501-ND, CONSMA002-ND
J10	1	V- Selection	CON_HDR::1x5	N/A	
J12	1	6V power jack	CON_PWR::Pwr_jack	Digi-Key	PJ-102AH
J17	1	Analog signal conn.	(for customizing)	N/A	
J18	1	Digital pot. conn.	(for customizing)	N/A	
J20	1	Aux. power conn.	(for customizing)	N/A	
R9	1	1 Ω thin-film	2PIN::H/300/100	any	
R2	1	10 Ω	2PIN::H/300/100	any	
R1	1	150 Ω	2PIN::H/300/100	any	
R8	1	220 Ω	2PIN::H/300/100	any	
R5	1	330 Ω	2PIN::H/300/100	any	
R3-R4	2	11k	2PIN::H/300/100	any	
R6	1	100 Ω SMD	IPC::CD2012-0805	Digi-Key	RR12P100DCT-ND
R10	1	180 Ω SMD	IPC::CD2012-0805	Digi-Key	RR12P180DCT-ND
R7	1	39k SMD	IPC::CD2012-0805	Digi-Key	RR12P39.0KDCT-ND
R11	1	gain setting	2PIN::H/300/100	N/A	resistor or digital pot.
S1	1	power switch	SWITCH::100DP1T2B4M6QE	Digi-Key	EG2404-ND
U1	1	PIC32MX250F128D	QFP::44P0.8E10H12	Digi-Key	PIC32MX250F128D-I/PT-ND
U2	1	FOX924B_20MHz	RF::OSC_FOX924B	Digi-Key	631-1073-1-ND
U3	1	74VHC00	SOIC::14P1.27D8.7H6	Digi-Key	74VHC00M-ND
U4	1	USB32	daughter board	custom	homemade
U5	1	DB1	daughter board	custom	homemade
U6	1	LM2940 5V reg.	TO::220V3P100	Digi-Key	LM2940CT-5.0-ND
U7	1	DB2	daughter board	custom	homemade
U8	1	MCP1702-3302E 3.3V reg.	TO::92	Digi-Key	MCP1702-3320E/TO-ND
U9	1	RSO0505S -5V supply	IPC::SIL-7(8)	Digi-Key	945-1327-ND
U10	1	+/- 12V supply	DIP::CC1R5-xxxF-E	Digi-Key	445-2447-ND
U11	1	AD5689RBRUZ DAC	TSSOP::16P0.65D5H6.4	Digi-Key	AD5689RBRUZ-ND
U12	1	AD8226A instrum. amp.	SOIC::8P1.27D4.9H6	Digi-Key	AD8226ARZ-ND
U13	1	AD5293BRUZ-20 dig. pot.	TSSOP::14P0.65D5H6.4	Digi-Key	AD5293BRUZ-20-ND

Note: For 6V supply, Digi-Key T1019-P5RP-ND works well and is inexpensive.