

# Bill of Materials

# PIC One Platform Demo board

Quantity	Designator	Value	Description	Vendor	Part Number	Digikey
1	BT1		Battery Holder, AAA, PCB, W/ribbon	Keystone	12BH411P-R-GR	
1	BT1		AAA Battery			
19	C1, C2, C3, C4, C6, C7, C8, C10, C11, C12, C13, C14, C17, C18, C22, C26, C27, C38, C39	0.1uF	CAP CERAMIC .1UF 16V Y5V 0603	Yageo	CC0603ZRY5V7BB104	311-1369-2-ND
2	C5, C19	10uF	CAP CER 10UF 16V X5R 10% 1206	TDK Corporation	C3216X5R1C106K	445-4052-1-ND
8	C9, C23, C24, C30, C31, C32, C33, C34	1uF	CAP CER 1.0UF 16V 10% X5R 0603	Murata Electronics North	GRM188R61C105KA93D	490-1536-1-ND
1	C15	4.7uF	CAP CERAMIC 4.7UF 6.3V X5R 0603	Panasonic - ECG	ECJ-1VB0J475M	ECJ-1VB0J475M
1	C16	10uF	CAP CER 10UF 6.3V Y5V 0805	Murata Electronics North	GRM21BF50J106ZE01L	490-1746-2-ND
2	C20, C21	22pF	CAP CER 22PF 50V 5% C0G 0603	Murata Electronics North	GRM1885C1H220JA01D	490-1411-2-ND
1	C25	47UF	CAP 47UF 10V VS ELECT SMD	Panasonic - ECG	ECE-V1AA470SP	PCE3060CT-ND
2	C28, C29	100UF	CAP ELECT 100UF 16V VS SMD	Panasonic - ECG	EEE-1CA101WAP	PCE4579CT-ND
1	C35	12PF	CAP CER 12PF 50V C0G 0603	TDK Corporation	C1608C0G1H120J	445-1270-1-ND
1	C36	10PF	CAP CER 10PF 50V C0G 5% 0603	TDK Corporation	C1608C0G1H100J	445-6852-1-ND
0	C40, C41	No Load	Cap Ceramic No load			
4	D1, D3, D4, D5		LED 1X0.5MM 570NM GN WTR CLR SMD	Kingbright Corp	APHHS1005CGCK	754-1101-1-ND
1	D16		DIODE SCHOTTKY 20V 500MA SOD123	Micro Commercial Co	MBR0520-TP	MBR0520TPMSCT-ND
4	D7, D8, D9, D10		LED THIN 565NM GRN DIFF 0805 SMD	Lumex Opto/Components	SML-LXT0805GW-TR	67-1553-1-ND
0	D6, D17, D18	No Load	LED THIN 565NM GRN DIFF 0805 SMD	Lumex Opto/Components	SML-LXT0805GW-TR	67-1553-1-ND
3	D11, D12, D13		LED THIN 585NM YEL DIFF 0805 SMD	Lumex Opto/Components	SML-LXT0805YW-TR	67-1554-1-ND
2	D14, D15		LED THIN 635NM RED DIFF 0805 SMD	Lumex Opto/Components	SML-LXT0805IW-TR	SML-LXT0805IW-TR
1	J1		CONN JACK STEREO 5POS 3.5MM SMD	CUI Inc	SJ1-3515-SMT	CP1-3515SJCT-ND
1	J2		CONN RECEPT MINI USB2.0 5POS	Hirose	UX60-MB-5ST	H2959CT-ND
1	J3		CONN HEADER 3POS .100" SGL GOLD			
3	JP1, JP2, JP3		CONN HEADER 2POS .100" SGL GOLD			
1	Load @ JP1,JP2on "16 bit"		MULTI-SHUNT,	Samtec,	MNT-102-BK-T	
1	J4		CONN HEADER 6POS .100 SGL R/A SMT AU	Samtec Inc	TSM-106-01-L-SH	
1	J6		CONN HEADER 6POS .100" SGL GOLD	Samtec Inc	TSW-106-07-G-S	SAM1029-06-ND
1	L1	4.7uH	Inductor SMD	Coilcraft	EPL3010-472MLB	
1	LCD1	{Value}	LCD XIAMEN OCULAR	Tianma	TM162JCAWG1	
1	LS1		SPEAKER 14X25MM 8 OHMS 1WATT	CUI Inc	GC0251K	GC0251K-ND
2	M2		SCREW MACHINE PHILLIPS 2-56X1/4	B&F Fastener Supply	PMS 256 0025 PH	H330-ND
2	M3		NUT HEX 2-56 ZINC PLATED	B&F Fastener Supply	HNZ256	H212-ND
1	MK1		MIC CONDENSER ELECT OMNI -44DB	CUI Inc	CMA-4544PF-W	102-1721-ND
1	P1		Header, 214Pin, Dual row Female			
1	PCB1		PCB		05-60XXX	
2	R43, R27	100 Ohm	RES 100 OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 100 1% R	RMCF1/16100FRTR-ND
2	R2, R3	4.7K	RES 4.7K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 4.7K 1% R	RMCF1/164.7KFRTR-ND
18	R4, R8, R9, R10, R11, R12, R13, R14, R15, R17, R18, R19, R29, R31, R32	1K	RES 1K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 1K 1% R	RMCF1/161KFRTR-ND
1	R5	976K	RES 976K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RC0603FR-07976KL	311-976KHRTR-ND
1	R6	562K	RES 562K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RC0603FR-07562KL	311-562KHRTR-ND
1	R7	10K	POT 10K OHM THUMBWHEEL CERM ST	Bourns Inc.	3352T-1-103LF	3352T-103LF-ND
4	R1, R16, R21, R23	10K	RES 10K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 10K 1% R	RMCF1/1610KFRTR-ND
2	R20, R38	0 Ohm	RES 0.0 OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 0 R 1% R	RMCF1/160RTR-ND
0	R40, R41, R42	No Load				
1	R22	10K	RES 10K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 10K 1% R	RMCF1/1610KFRTR-ND
1	R24	5.1K	RES 5.1K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF0603FT5K10	RMCF0603FT5K10TR-ND
4	R26, R30, R35, R36	20K	RES 20K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 20K 1% R	RMCF1/1620KFRCT-ND
1	R33	100K	RES 100K OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 100K 1% R	RMCF1/16100KFRTR-ND
2	R25, R28	1M	RES 1M OHM 1/10W 1% 0603 SMD	Stackpole Electronics Inc	RMCF 1/16 1M 1% R	RMCF1/161MFRTR-ND
2	S1, S2		SWITCH LT TOUCH 6X3.5 100GF SMD	Panasonic - ECG	EVQ-PE104K	P13593SCT-ND
1	TP1		TP 125R63 RED	Keystone Electronics	5010	5010K-ND
1	TP2		TP 125R63 BLK	Keystone Electronics	5011	5011K-ND
1	U1		IC USB TO UART 20SSOP	Microchip Technology	MCP2200-I/SS	MCP2200-I/SS-ND
1	U2		General Purpose 16-Bit Flash Microcontroller with USB On-The-Go, 256KB Flash, 16KB SRAM, 64-Pin TQFP, Industrial Temperature	Microchip Technology	PIC24FJ256GA106-I/PT	PIC24FJ256GA106-I/PT-ND
1	U3		High Performance 80 MHz MIPS-Based 32-Bit Flash Microcontroller with USB, CAN and Ethernet, 512KB Program Memory, 100-pin TQFP, Industrial Temperature	Microchip technology	PIC32MX795F512L-80I/PT	PIC32MX795F512L-80I/PT-ND
1	U4		IC REG LDO 3.3V 250MA SOT23-3	Microchip	MCP1700T-3302E/TT	MCP1700T3302ETTCT-ND
1	U5		IC CONV DCDC STEPUP SYNC SOT23-6	Microchip Technology	MCP1640T-I/CHY	MCP1640T-I/CHYCT-ND
1	U6		IC MCU 8BIT FLASH 44TQFP	Microchip Technology	PIC16LF1939-I/PT	16LF1939-I/PT-ND
1	U7		Mono 1.5 W / Stereo 300mW Power Amplifier	National Semiconductor		LM4853MMCT-ND
1	U8		3-AXIS ACCELEROMETER DIGITAL I/F	Bosch Sensortec	BMA150	28-1003-1-ND
1	U9		RTCC ALARM NVSRAM 8TSSOP	Microchip Technology	MCP79410-I/ST	MCP79410-I/ST-ND
1	X1		BUZZER PIEZO 30V 4.0KHZ PCB	CUI Inc	CPE-168	102-1613-ND
1	Y2	32.768KHz	Crystal	Micro Crystal Switzerland	CM7V-T1A	
1	Y3	12MHz	CRYSTAL 12.00MHZ 18PF SMD	ECS Inc	ECS-120-18-5PX-TR	XC1289CT-ND

Approved	Notes