

Bill of Materials

PAC1934 USB A PowerMeter

Document Number: **02-10860**
 Board Number: **04-10860**
 Part Number: **ADM00974**
 Revision: **2**
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Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
5	C1, C4, C6, C7, C9	CAP CER 0.1uF 25V 10% X7R SMD 0402	TDK	C1005X7R1E104K050B	Digi-Key	445-7348-1-ND
1	C2	CAP CER 0.1uF 25V 10% X7R SMD 0603	TDK	C1608X7R1E104K	Digi-Key	445-1316-1-ND
1	C3	CAP CER 10uF 16V 20% X5R SMD 0805	TDK	C2012X5R1C106M085A	Digi-Key	445-7645-1-ND
3	C10, C11, C12	CAP CER 4.7uF 10V 10% X5R SMD 0805	Taiyo Yuden	LMK212BJ475KD-T	Digi-Key	587-1297-1-ND
1	FB1	FERRITE 600R@100MHz 1A SMD 0603	Bourns	MH1608-601Y	Digi-Key	MH1608-601YCT-ND
2	J3, J4	CON HDR-2.54 Male 1x1 Gold 5.84MH TH VERT	TE Connectivity	5-146868-1	Digi-Key	A105161CT-ND
1	J5	CON USB3.0 STD-A MALE SMD R/A	Würth Electronics	692112030100	Digi-Key	732-3157-ND
1	J6	CON USB3.0 STD-A FEMALE TH R/A	Würth Electronics	692121230100	Digi-Key	732-3147-1-ND
1	OLED1	DISPLAY OLED MODULE ARDUINO WHITE 128x64 3.3-5V TH	Aiconnecting Electronic	128x64 I2C IIC Serial wh	Aiconnecting E	128x64 I2C IIC Serial white OLED IC
1	Q1	TRANS FET P-CH DMP3099L-7 -30V -3.8A 1.08W SOT-23-3	Diodes	DMP3099L-7	Digi-Key	DMP3099L-7DICT-ND
1	R1	RES TKF 10k 1% 1/10W SMD 0603	Vishay	CRCW060310K0FKEA	Digi-Key	541-10.0KHCT-ND
1	R2	RES SHUNT MF 0.004R 1% 2W 2512	Stackpole Electronics	CSNL2512FT4L00	Digi-Key	CSNL2512FT4L00CT-ND
2	R3, R4	RES TKF 4.7k 1% 1/10W 0402	KOA Speer	RK73H1ETTP4701F	Mouser	660-RK73H1ETTP4701F
2	R5, R6	RES TKF 4.7k 1% 1/10W SMD 0603	Vishay	CRCW06034K70FKEA	Digi-Key	541-4.70KHCT-ND
1	R7	RES TKF 10k 1% 1/10W SMD 0603	Xicon	302-10K-RC	Mouser	302-10K-RC
1	SW1	SWITCH JOYSTICK 3-WAY MECHANICAL 1mA MCPL3-AC-V SMD R/A	MULTICOMP	MCPL3-AC-V	Farnell Román	1316992

Microchip Parts listed below

1	U1	MCHP MCU 16-BIT 32MHz 128kB 16K PIC24FJ128GA702-I/MV UQFN-28	Microchip	PIC24FJ128GA702-I/MV	Digi-Key	PIC24FJ128GA702-I/MV-ND
1	U2	MCHP ANALOG POWER CURRENT SENSE MONITOR PAC1934T-I/J6CX WLCSP-16	Microchip Technology	PAC1934T-I/J6CX	Microchip Tech	PAC1934T-I/J6CX
1	U3	MCHP ANALOG LDO 3.3V MCP1754ST-3302E/CB SOT-23A-3	Microchip	MCP1754ST-3302E/CB	Digi-Key	MCP1754ST-3302E/CBCT-ND

Mechanical Parts to be added in the package

1	LABEL1	Label, AIPD Board Assembly				
4	NUT1, NUT2, NUT3, NUT4	MECH HW NUT M3x3mm HEX Zinc	BOSSARD	M3/BN131	TME Electronic	B3/BN131
4	S1, S2, S3, S4	MECH HW STAND-OFF M3x6mm F/F HEX Zinc	BOSSARD	M3X6/BN3319	TME Electronic	B3X6/BN3319
4	SCR1, SCR3, SCR5, SCR7	MECH HW SCREW M3x3mm Button Stainless Steel	AccuGroup	SSB-M3-3-A2	AccuGroup	SSB-M3-3-A2
4	SCR2, SCR4, SCR6, SCR8	MECH HW SCREW M3x8mm Button Stainless Steel	AccuGroup	SSB-M3-8-A2	AccuGroup	SSB-M3-8-A2

PCB

1	PCB1	ADM00974 - Main Board		04-10860-R2		
1	PCB2	Top Shield		04-10861-R2		
1	PCB3	Bottom Shield		04-10862-R2		

Do Not Populate Parts listed below

1	J1	CON TAG 6P No-Leg SMD VERT	Tag-Connect	TC2030-MCP-NL	Microchip	TC2030-MCP-NL
1	J2	CON HDR-1.27 Male 1x6 Gold 3MH TH R/A	Sullins	GRP061VWCN-RC	Digi-Key	S9016E-06-ND