

ASSEMBLY	SUB ASSEMBLY	PART	DESCRIPTION	MFG.	MFG. PART NO.	SUPPLIER	SUPPLIER PART NO.	QTY/UNIT
MAIN UNIT	-	EXTENSION	BOX ALUM NATURAL 4.72" LX3.07"W	Hammond Manufacturing Würth Elektronik	1455J1201	DIGKEY	HM800-ND	1
MAIN UNIT	-	JUMPER	JUMPER W/TEST PNT 1X2PINS 254MM		60900213421	DIGKEY	732-2678-ND	1
MAIN UNIT	-	MEX0.8 35MM LONG HEX CAP SCREW	Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw; M5 x 0.8 mm Thread, .35 mm Long			MCMMASTER	92290A256	2
MAIN UNIT	-	POWER SWITCH	SWITCH ROCKER SPST 10A 125V	E-Switch	RoABLKBKFF	DIGKEY	EG1526-ND	1
MAIN UNIT	-	QUICK CONNECT CABLE CRIMP	CONN QC RCPT 14-18AWG 0.187	TE Connectivity AMP Connectors	63316-2	DIGKEY	A10092CT-ND	4
MAIN UNIT	-	RECEPTACLE SLEEVE	CONN RCPT SLEEVE 0.187 1POS CLR	TE Connectivity AMP Connectors	3470823-8	DIGKEY	A124425-ND	4
MAIN UNIT	-	RIBBON CABLE	CABLE ASSEM .067 10POS F-F 2"	Santec Inc.	FFSD-065-D-02-00-01-N	DIGKEY	SAM821T-ND	1
MAIN UNIT	-	THREAD LOCKER	ADJUSTABLE THREAD LOCKER; 0.34 OZ. CAN	LOCTITE	222	MCMMASTER	1810A27	0.01
MAIN UNIT	-	SIDE PANEL 1		LASER CUT				1
MAIN UNIT	-	SIDE PANEL 2		LASER CUT				1
MAIN UNIT	-	(-), (+)		MOLEX				2
MAIN UNIT	MAIN BOARD	ADXL375_1, ADXL375_2	DIGIKEY PART NO. WM6456-ND		19708-4011	DIGKEY	WM6456-ND	2
MAIN UNIT	MAIN BOARD	BAT_1, BAT_2	Digikey Part No. RJCS5E38901CT-	Amphenol ICC (Commercial Products)	RJCS5E38901	DIGKEY	RJCS5E38901CT-ND	2
MAIN UNIT	MAIN BOARD	C1, C20, C21, C22, C23, C5	PH Series 2 Position 2 mm Pitch	JST Sales America Inc.	S2B-PH-SM4-TB(LF)(SN)	DIGKEY	455-1749-1-ND	2
MAIN UNIT	MAIN BOARD	C15, C16	CAP CER 0.1UF 25V X7R 0805	KEMET	C0805C104K3RACTU	DIGKEY	399-1284-1-ND	6
MAIN UNIT	MAIN BOARD	C17, C18, C19	CAP CER 1UF 16V X7R 0805	KEMET	C0805C105K4RACTU	DIGKEY	399-1284-1-ND	2
MAIN UNIT	MAIN BOARD	C2, C8	CAP CER 4.7UF 6.3V X5R 0805	KEMET	C0805C475K9PACTU	DIGKEY	399-3134-1-ND	3
MAIN UNIT	MAIN BOARD	C3, C4	CAP CER 22PF 250V C0G/NP0 0805	KEMET	CBR08C200BAGAC	DIGKEY	399-8701-1-ND	2
MAIN UNIT	MAIN BOARD	C6, C7	CAP CER 22UF 10V X7R 0805	KEMET	CBR08C240JAGAC	DIGKEY	399-8758-1-ND	2
MAIN UNIT	MAIN BOARD	C9	CAP CER 100UF 10V X5R 0805	KEMET	C0805C225K8RACAUO	DIGKEY	399-6951-1-ND	2
MAIN UNIT	MAIN BOARD	D1	DIODE SCHOTTKY 20V 1A SOD123W	KEMET	C0805C106K8PACTU	DIGKEY	399-4925-1-ND	1
MAIN UNIT	MAIN BOARD	J1	CONN RCPT USB2.0 MINI B SMD R/A	Nesperia USA Inc.	PMCE20100ERJ115	DIGKEY	1727-5192-1-ND	1
MAIN UNIT	MAIN BOARD	JP1	CONN HEADER VERT 3POS 2.54MM	Molex	6750311020	DIGKEY	WM5461CT-ND	1
MAIN UNIT	MAIN BOARD	L1	120 Ohms @ 100MHz 1 Ferrite Be	Würth Elektronik	61300311121	DIGKEY	732-5316-ND	1
MAIN UNIT	MAIN BOARD	LED_BLU	LED BLUE CLEAR 0805 SMD	Vishay Dale	ILHB0805ER121V	DIGKEY	541-2299-1-ND	1
MAIN UNIT	MAIN BOARD	LED_GRN	LED GREEN CLEAR 0805 SMD	Würth Elektronik	150080BS75000	DIGKEY	732-4982-1-ND	1
MAIN UNIT	MAIN BOARD	LED_RED	LED RED CLEAR 0805 SMD	Würth Elektronik	150080VS75000	DIGKEY	732-4986-1-ND	1
MAIN UNIT	MAIN BOARD	LED_YEL	LED YELLOW CLEAR 0805 SMD	Würth Elektronik	150080SS75000	DIGKEY	732-4985-1-ND	1
MAIN UNIT	MAIN BOARD	L1PO_CHG	IC CONTROLLER L10N 4.2V SOT23-5	Microchip Technology	150080YS75000	DIGKEY	732-4987-1-ND	1
MAIN UNIT	MAIN BOARD	LITHIUM ION BATTERY	BATTERY LITHIUM 3.7V 1.2AH	Microchip Technology	MCP73831T-2ACI	DIGKEY	MCP73831T-2ACI/OTCT-ND	1
MAIN UNIT	MAIN BOARD	LITHIUM POLYMER BATTERY	BATT LITH POLY 1S1P 320MAH 3.7V	Adafruit Industries LLC	258	DIGKEY	1528-1838-ND	1
MAIN UNIT	MAIN BOARD	R1, R13, R5, R6, R8	RES SMD 100K OHM 1% 1/3W 0805	Jauch Quartz	LP4025353JU + PCM + WIRES 50MM	DIGKEY	1908-1354-ND	4
MAIN UNIT	MAIN BOARD	R11	RES SMD 2K OHM 0.1% 1/4W 0805	TE Connectivity Passive Product	CRGH0805F100K	DIGKEY	A126415CT-ND	5
MAIN UNIT	MAIN BOARD	R19, R20, R21, R22, R3	CRGQ 0805 4K7 1%	TE Connectivity Passive Product	RP73P2A2K0BTDFF	DIGKEY	A110572CT-ND	1
MAIN UNIT	MAIN BOARD	R2, R10, R15, R16, R17, R18	RES SMD 560 OHM 1% 1/8W 0805	TE Connectivity Passive Product	CRGQ0805F4K7	DIGKEY	A129757CT-ND	5
MAIN UNIT	MAIN BOARD	R7, R9	RES SMD 22 OHM 1% 1/8W 0805	TE Connectivity Passive Product	CRGH0805F560R	DIGKEY	A126373CT-ND	6
MAIN UNIT	MAIN BOARD	RESET	SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch	CRGH0805F22R	DIGKEY	A126352CT-ND	2
MAIN UNIT	MAIN BOARD	SD_SLOT	CONN MICRO SD CARD PUSH-PUSH R/A	Molex	TL3301FF160QG	DIGKEY	EG4575CT-ND	1
MAIN UNIT	MAIN BOARD	STM32F405RGT6	IC MCU 32BIT 1MB FLASH 64LQFP	STMicroelectronics	5027740891	DIGKEY	WM24066CT-ND	1
MAIN UNIT	MAIN BOARD	U1	IC REG LINEAR 3.3V 1A SOT223	Diodes Incorporated	STM32F405RGT6	DIGKEY	497-11767-ND	1
MAIN UNIT	MAIN BOARD	X1	CONN HEADER SMD 10POS 1.27MM		AZ1117EH-3.3TRG1	DIGKEY	AZ1117EH-	1
MAIN UNIT	MAIN BOARD	XTAL	CRYSTAL 12.000MHZ 18PF SMD	Santec Inc.	SHF-105-01-L-D-SM	DIGKEY	3.3TRG1DICT-ND	1
MAIN UNIT	MAIN BOARD	Y1	CRYSTAL 32.7680KHZ 6PF SMD	ECS Inc.	ECS-120-18-5P-X-TR	DIGKEY	SAM10710-ND	1
MAIN UNIT	UI BOARD	LED HOLDER	LED HOLDER	Abraco LLC	ABS25-32.768KHZ-6-L-T	DIGKEY	XC1280CT-ND	1
MAIN UNIT	UI BOARD	7 SEGMENT DISPLAY	Quad Alphaumeric Display - Red 0.54" Digits w/ 12C Backpack	3D PRINTED			535-10241-1-ND	1
MAIN UNIT	UI BOARD	CHG	PNL MNT W/ WIRE 590NM 25MCD YLW	ADAFRUIT Industries LLC	1911	ADAFRUIT	1911	1
MAIN UNIT	UI BOARD	PWR	PNL MNT W/ WIRE 568NM 25MCD GRN	Bivar Inc.	MPR5YD	DIGKEY	492-1576-ND	1
MAIN UNIT	UI BOARD	R1, R3	RES SMD 44.2 OHM 0.1% 1/4W 0805	Bivar Inc.	MPR5GD	DIGKEY	492-1571-ND	1
MAIN UNIT	UI BOARD	R2	RES SMD 806 OHM 0.1% 1/4W 0805	TE Connectivity Passive Product	8-1625-868-9	DIGKEY	A110413CT-ND	2
MAIN UNIT	UI BOARD	R4	CRGQ 0805 4K7 1%	TE Connectivity Passive Product	1-2176091-5	DIGKEY	A110438CT-ND	1
MAIN UNIT	UI BOARD	REC	PNL MNT W/ WIRE 625NM 25MCD RED	TE Connectivity Passive Product	CRGQ0805F4K7	DIGKEY	A129757CT-ND	1
MAIN UNIT	UI BOARD	STANDOFFS	Splined Press-Fit Threaded Standoffs with Open End; Miniature, 2.4mm OD, 2mm Long	Bivar Inc.	MPR5HD	DIGKEY	492-1573-ND	1
MAIN UNIT	UI BOARD	U\$4	SWITCH PUSHBUTTON SPST-NO 2A 48V	E-Switch	PV01240SS	MCMMASTER	92985A815	4
MAIN UNIT	UI BOARD	X1	CONN HEADER SMD 10POS 1.27MM	Santec Inc.	SHF-105-01-L-D-SM	DIGKEY	EG5385-ND	1
MAIN UNIT	UI BOARD		316 Stainless Steel Washer; for Number 3 Screw Size; 0.109" ID, 0.25" OD			DIGKEY	SAM10710-ND	1
MAIN UNIT	UI BOARD					MCMMASTER	90107A004	4

ASSEMBLY	SUB ASSEMBLY	PART	DESCRIPTION	MFG.	MFG. PART NO.	SUPPLIER	SUPPLIER PART NO.	QTY/UNIT
MAIN UNIT	UI BOARD		Aluminum Unthreaded Spacer; 1/4" OD, 3/16" Long, for Number 2 Screw Size			MCMMASTER	92510A401	4
MAIN UNIT	UI BOARD		18-8 Stainless Steel Washer for M1 Screw Size, 1.1 mm ID, 3.2 mm OD			MCMMASTER	93475A154	8
MAIN UNIT	UI BOARD		18-8 Stainless Steel Narrow Cheese Head Slotted Screws; M1 x 0.25mm Thread, 10mm Long			MCMMASTER	91800A062	4
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	U1	IC GATE OR ICH 2-INP SC70-5	Texas Instruments	SN74LVC1G32DCKR	DIGIKEY	296-9848-1-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	RJ45	Digikey Part No. RJCSE538001CT-	Amphenol ICC (Commercial Products)	RJCSE538001	DIGIKEY	RJCSE38001CT-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	L1	FERRITE BEAD 30 OHM 0805 1LN	Bourns Inc.	MH2029-300Y	DIGIKEY	MH2029-300YCT-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	C3, C1	CAP CER 0.1UF 25V X7R 0805	KEMET	C0805C104K3RACTU	DIGIKEY	399-1168-1-ND	2
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	C2	CAP CER 10UF 10V X5R 0805	KEMET	C0805C106K8FACTU	DIGIKEY	399-4925-1-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	ADXL375	ACCELEROMETER 200G 12C/SPI 14LGA	Analog Devices Inc.	ADXL375BCCZ	DIGIKEY	ADXL375BCCZ-ND	1
FRONT ACCELEROMETER UNIT	-	FRONT MOUNT BLOCK	FRONT MOUNT BLOCK	3D PRINTED				1
FRONT ACCELEROMETER UNIT	-	FRONT COVER	FRONT COVER	3D PRINTED				1
FRONT ACCELEROMETER UNIT	-	LARGE U-BOLT	Rubber-Cushioned U-Bolt; 304 Stainless Steel, 3/8"x16 Thread Size, 1-7/8" ID			MCMMASTER	30555T43	2
FRONT ACCELEROMETER UNIT	-	M3X0.5 BRASS INSERTS	Brass Heat-Set Inserts for Plastic; M3 x 0.50 mm Thread Size, 5.700 mm Installed Length			MCMMASTER	94459A140	4
FRONT ACCELEROMETER UNIT	-	SCREW; PHILLIPS; M3X0.5X6	Stainless Steel Pan Head Screws; with External-Tooth Washer, M3 x 0.5 mm Thread, 6 mm Long			MCMMASTER	90317A523	4
FRONT ACCELEROMETER UNIT	-	1/4" WASHER	316 Stainless Steel Washer; for 1/4" Screw Size, 0.281" ID, 0.625" OD			MCMMASTER	90107A029	4
REAR ACCELEROMETER UNIT	ADXL375 BOARD	U1	IC GATE OR ICH 2-INP SC70-5	Texas Instruments	SN74LVC1G32DCKR	DIGIKEY	296-9848-1-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	RJ45	Digikey Part No. RJCSE38001CT-	Amphenol ICC (Commercial Products)	RJCSE538001	DIGIKEY	RJCSE38001CT-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	L1	FERRITE BEAD 30 OHM 0805 1LN	Bourns Inc.	MH2029-300Y	DIGIKEY	MH2029-300YCT-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	C3, C1	CAP CER 0.1UF 25V X7R 0805	KEMET	C0805C104K3RACTU	DIGIKEY	399-1168-1-ND	2
REAR ACCELEROMETER UNIT	ADXL375 BOARD	C2	CAP CER 10UF 10V X5R 0805	KEMET	C0805C106K8FACTU	DIGIKEY	399-4925-1-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	ADXL375	ACCELEROMETER 200G 12C/SPI 14LGA	Analog Devices Inc.	ADXL375BCCZ	DIGIKEY	ADXL375BCCZ-ND	1
REAR ACCELEROMETER UNIT	-	REAR MOUNT BLOCK	REAR MOUNT BLOCK	3D PRINTED				1
REAR ACCELEROMETER UNIT	-	REAR COVER	REAR COVER	3D PRINTED				1
REAR ACCELEROMETER UNIT	-	REAR TRIANGLE ADAPTER	REAR TRIANGLE ADAPTER	3D PRINTED				1
REAR ACCELEROMETER UNIT	-	SMALL U-BOLT	Rubber-Cushioned U-Bolt; 304 Stainless Steel, 1/4"x.20 Thread Size, 1-1/4" ID			MCMMASTER	30555T42	2
REAR ACCELEROMETER UNIT	-	M3X0.5 BRASS INSERTS	Brass Heat-Set Inserts for Plastic; M3 x 0.50 mm Thread Size, 5.700 mm Installed Length			MCMMASTER	94459A140	4
REAR ACCELEROMETER UNIT	-	SCREW; PHILLIPS; M3X0.5X6	Stainless Steel Pan Head Screws; with External-Tooth Washer, M3 x 0.5 mm Thread, 6 mm Long			MCMMASTER	90317A523	4
REAR ACCELEROMETER UNIT	-	1/4" WASHER	316 Stainless Steel Washer; for 1/4" Screw Size, 0.281" ID, 0.625" OD			MCMMASTER	90107A029	4