

Component	Quantity	Part Number	Description	Link
Adhesive	5 oz		SCIGRIP 10315 16 Acrylic Plastic Cement, Low-VOC, Medium Bodied and Fast-Sett	https://www.amazon.com/gp/product/B003HNFMY/ref=ox_sc_act_title_1?smid=ATVPDKIKX0DER&psc=1
Bottom Cap + Tube				
Inner Cap	1		Acrylic Circle, 3" x 0.236"	https://www.tapplastics.com/product/plastics/acrylic_circles/clear_acrylic_circles/140
Outer Cap	1		Acrylic Sheet, 2'x2' x 1/8"	https://www.tapplastics.com/product/plastics/plastic_sheets_rolls/acrylic_sheets_clear/508
Lightstrip inner-tube	1		Clear Extruded Acrylic Square Tubing, 1"OD x 1/16" Wall x 6' Length	https://www.tapplastics.com/product/plastics/plastic_rods_tubes_shapes/clear_square_acrylic_tubing/142
Padding + Adhesive	1	SikaFlex*-1a	One part polyurethane, elastomeric sealant/adhesive	https://www.amazon.com/Sika-SikaFlex-Polyurethane-Caulk-Color/dp/B01BSZ7FV2/ref=sr_1_24?dchild=1&keywords=SikaFlex%C2%AE-1a&qid=1608501766&s=sporting-goods&sr=1-24-catcorr
LED Strips	4		5m APA102 Smart LED Pixel Strip 30 LEDs/Pixels/m,Non-Waterproof	https://www.amazon.com/gp/product/B0782MGBJG/ref=ox_sc_act_title_1?smid=A19OY9D2EAWSH3&th=1
LED Strip Combiner PCB				
PCB	1		LEDStripCombinerPCB.zip	
4 position header	4		CONN HEADER VERT 4POS 2.54MM	https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/5-146274-4/2275868
Tube		1	HDPE plastic Tube - 2 7/8" I.D. x 3 1/4" O.D.	https://www.qcsupply.com/310402-2-7-8-id-3-1-4-od-chovertime-drop-tube.html
Top Cap + Electronics				
Inner Cap	1		Acrylic Circle, 3" x 0.236"	https://www.tapplastics.com/product/plastics/acrylic_circles/clear_acrylic_circles/140
Outer Cap	1		Acrylic Sheet, 2'x2' x 1/8"	https://www.tapplastics.com/product/plastics/plastic_sheets_rolls/acrylic_sheets_clear/508
Electronics Sleeve	1		Tri-Guard Molding 3/4 in x 3/4 in x 4 ft	https://www.tapplastics.com/product/plastics/plastic_rods_tubes_shapes/corner_molding/152
Sleeve to Cap Mount	1		Chemcast Cast Acrylic Sheets	https://www.tapplastics.com/product/plastics/plastic_sheets_rolls/acrylic_sheets_cast_clear/510
Radio Mounting Surface	1		Angular Acrylic bar for radio mounting	https://www.tapplastics.com/product/plastics/plastic_rods_tubes_shapes/corner_angle/151
Battery Holders				
Single AA battery holder	3	BCAAL-ND	HOLDER BATT 1AA CELL SLDR LUGS	https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/BCAAL/66729
Dual in-line AA battery hold	1	BC12AAW-ND	HOLDER 2 AA CELL W/6 WIRE LEADS	https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/BC12AAW/2439232?s=N4lgTCBcDaiEIgECMYCCqDqBaAcgERAF0BfIA
AA Batteries	4		AA High Capacity (2400mAh) NIMH Batteries	https://www.amazon.com/gp/product/B00HZV9WTM/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1
Power Switch	1	SW619-ND	SWITCH SLIDE DDPDT 3A 125V	https://www.digikey.com/en/products/detail/cw-industries/GF-126-0147/362077?s=N4lgTCBcDaiMoHUBsBGAnAWgHIBEQf0BfIA
CapConnector PCB	1		CapConnector.zip	
Electronics				
Mote Breakout PCB	1		MoteBreakout.zip	
Radio Module	1	LTP5901-IPMA	SmartMesh IP Mesh Network LTC5800 based integrated MCU+radio	http://www.linear.com/docs/41871
Flash Memory	1	FL164K0XMF011	IC FLASH 64MBIT 108MHZ 8SOIC	https://www.digikey.com/en/products/detail/cypress-semiconductor-corp/S25FL164K0XMFQ13/13167549
Multiplexer	1	74LVC1G157GV,125	IC MULTIPLEXER 1 X 2:1 6T5OP	https://www.digikey.com/en/products/detail/nexperia-usa-inc/74LVC1G157GV125/1023282?s=N4lgTCBcDailwHYwLlQGYAs9OADCuKAgCgC6AvkA
P-Channel MOSFET	1	SSM3J338R,LF	MOSFET P-CH 12V 6A	https://www.digikey.com/en/products/detail/toshiba-semiconductor-and-storage/SSM3J338RLF/5810226?s=N4lgTCBcDaiMpwLiGYBSzK44BKAZAYgMIAqATAHIAiAugLSA
Misc				
Mounting Screws (Power Switch)			4-40 x 1/4" Oval Head Machine Screws, Phillips Drive, Stainless Steel	
Mounting Screws (Bottom/Top Caps)			4-40 x 3/8" Flat Head Machine Screws, Phillips Drive, Stainless Steel	
Double sided tape				
Aheadsive backed velcro				
4" Diameter hair bands				
Rubber Feet			Clear Polyurethane Bumpoms Square	https://www.tapplastics.com/product/plastics/plastic_rods_tubes_shapes/bumpoms_square/611
Small hanging hooks				