

| Component | Quantity | Part Number | Description | Link |
|-----------------------------------|----------|------------------|--|---|
| Adhesive | 5 oz | | SCIGRIP 10315 16 Acrylic Plastic Cement, Low-VOC, Medium Bodied and Fast-Set | 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=N4lgTCBcDaiIwHYwILQGYAs9OADCuKAgCgC6AvkA |
| 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=N4lgTCBcDaiMpwLIGYBSzK44BKAZAYgMIAqATAHIAIILAugLSA |
| 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 Bumpers Square | https://www.tapplastics.com/product/plastics/plastic_rods_tubes_shapes/bumpers_square/611 |
| Small hanging hooks | | | | |