



## LIGHTSAIL 2 PARTS LIST

| Component               | Subsystem        | Vendor                           | Model                               | Details                        |
|-------------------------|------------------|----------------------------------|-------------------------------------|--------------------------------|
| Sun Sensor (x4)         | Attitude control | Elmos                            | E910.86                             | <a href="#">Specifications</a> |
| Torque Rod (x3)         | Attitude control | Stras Space                      | Nanosatellite Magnetic Torque Rods  | <a href="#">Specifications</a> |
| Momentum Wheel          | Attitude control | Sinclair Interplanetary          | RW3-0.060                           | <a href="#">Specifications</a> |
| Gyroscopes (x3)         | Attitude control | Analog Devices, Inc.             | ADIS16135                           | <a href="#">Specifications</a> |
| Magnetometers (x3)      | Attitude control | Honeywell                        | HMC6343                             | <a href="#">Specifications</a> |
| Antenna board           | Communications   | Ecliptic Enterprises Corporation | Custom                              | <a href="#">Vendor link</a>    |
| UHF Radio               | Communications   | Tyvak                            | UHF Communication System            | <a href="#">Vendor link</a>    |
| System board            | Flight software  | Tyvak                            | Intrepid Pico-class                 | <a href="#">Vendor link</a>    |
| Payload Interface Board | Flight software  | Ecliptic Enterprises Corporation | Custom                              | <a href="#">Vendor link</a>    |
| Camera assembly         | Payload          | The Aerospace Corporation        | PSCAM                               | <a href="#">Vendor link</a>    |
| Solar sail              | Payload          | DuPont                           | Mylar                               | <a href="#">Specifications</a> |
| Sail motor              | Payload          | Faulhaber                        | Brushless DC series 2232 servomotor | <a href="#">Specifications</a> |
| Laser ranging assembly  | Payload          | Ecliptic Enterprises Corporation | Custom                              | <a href="#">Vendor link</a>    |
| Corner Cubes 12.7mm     | Payload          | Edmund Optics                    | 49-013                              | <a href="#">Vendor link</a>    |
| Corner Cubes 10.0mm     | Payload          | Edmund Optics                    | Discontinued                        | <a href="#">Vendor link</a>    |
| Camera lens             | Payload          | Sunex                            | DSL215                              | <a href="#">Specifications</a> |
| Battery cells (x8)      | Power            | Fedco Electronics                | Energy+ LIS1228                     | <a href="#">Vendor link</a>    |
| Solar panels            | Power            | Spectrolab                       | Ultra Triple Junction Solar Cells   | <a href="#">Vendor link</a>    |

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