

NanoSat Terminator Tape™

Affordable End-of-Mission Deorbit Module for NanoSats



Transformative Technologies
for Space, Sea, Earth, & Air

The NanoSat Terminator Tape™ is a compact, lightweight module that enables your small satellite to comply with post-mission orbital lifetime restrictions with minimal mass, volume, footprint, cost, and risk impacts to your program.

How To Use It

- Mount the Terminator Tape on any face of your satellite using four #4-40 screws. Hole interface and electrical port positioning are shown below.
- Upon completion of the satellite's mission, the satellite commands deployment of the Terminator Tape.
- The conductive film generates neutral particle drag and passive electrodynamic drag to hasten the deorbit of the NanoSat.
- Optional Configuration: Eight 4x7 cm solar cells can be mounted to the top surface using the electrical feed-throughs provided.

Specifications

Mass: 775g

Size: 180mm x 180mm x 18mm

Activation: NanoSat Terminator Tape utilizes a proven shape memory alloy (SMA) actuator to initiate deployment. The SMA actuator simply requires a constant source of low power for actuation. Nominal activation requirement is 1.6A @ 9VDC for 20 seconds at 25°C.

Interface

Contact TUI for an interface control document to get started fitting your NanoSat Terminator Tape Today!

Performance

The NanoSat Terminator Tape enables satellites massing 50 to 200 kg to comply with 25-year lifetime restrictions in orbits up to 1000 km.

