

SOLAR POWERED. RUGGED. INTELLIGENT.

CLP-SATELLITE

AP4 CASE STYLE | IRIDIUM EMSS NETWORK



Pole-to-pole visibility beyond cellular range.

A rugged, solar-powered satellite asset gateway for overseas, expeditionary, and remote-theater logistics. CLP-Satellite operates on the DoD side of the Iridium low-Earth-orbit constellation for truly global coverage.

GLOBAL CONNECTIVITY

Iridium EMSS provides pole-to-pole coverage through a 66-satellite LEO constellation, with unlimited satellite airtime under the U.S. Space Force EMSS contract.

RUGGED, SELF-POWERED

AP4 rugged case with integrated mounting feet, 1W energy-harvesting solar panel, and a 5 AHr 7.2V Li-ion battery designed to run for months without solar.

LOW-SIGNATURE DATA

Short-burst transmissions provide low RF emissions and a low probability of detection or intercept. Data is AES-256 encrypted, and the device is HERO-tested.

AT A GLANCE

66	POLE-TO-POLE	4 HR / 2 HR	AP4
LEO SATELLITES	COVERAGE	STATIONARY / MOVING	CASE STYLE



CLP-SATELLITE

TECHNICAL PROFILE

AP4 CASE STYLE | IRIDIUM EMSS NETWORK

Two-way communications, configurable reporting, and mission-ready integration in a self-powered asset gateway.

CONNECTIVITY

- Iridium EMSS — the DoD side of the Iridium constellation.
- 66-satellite low-Earth-orbit network.
- Unlimited satellite airtime through the U.S. Space Force EMSS contract.
- True pole-to-pole coverage with zero worldwide gaps.
- Short data bursts produce low RF emissions and low probability of detection/intercept.

DEFAULT BEHAVIOR

- Location every 4 hours while stationary.
- Location every 2 hours while in motion.
- Also reports battery voltage, internal temperature, and sky-view quality metrics.
- Configuration can be modified over the air in consultation with program management.

HARDWARE

- AP4 rugged case with integrated plastic mounting feet.
- 1W solar panel with energy harvesting.
- 5 AHr, 7.2V Li-ion battery; runs months without solar.
- 15-minute messaging year-round in non-arctic regions.
- Power-saving mode supports a full arctic winter.
- AES-256 encrypted and HERO tested.

SYSTEM INTEGRATION

- Integrates through API with RF-ITV Server, GEX, Palantir, and GDMS.
- Designed for assets that travel beyond terrestrial cellular coverage.

BEST FOR Overseas shipments, expeditionary operations, remote theater logistics, and any asset that requires global coverage outside cellular range.

