



Modern | Reliable | Always Connected

Communication Solutions

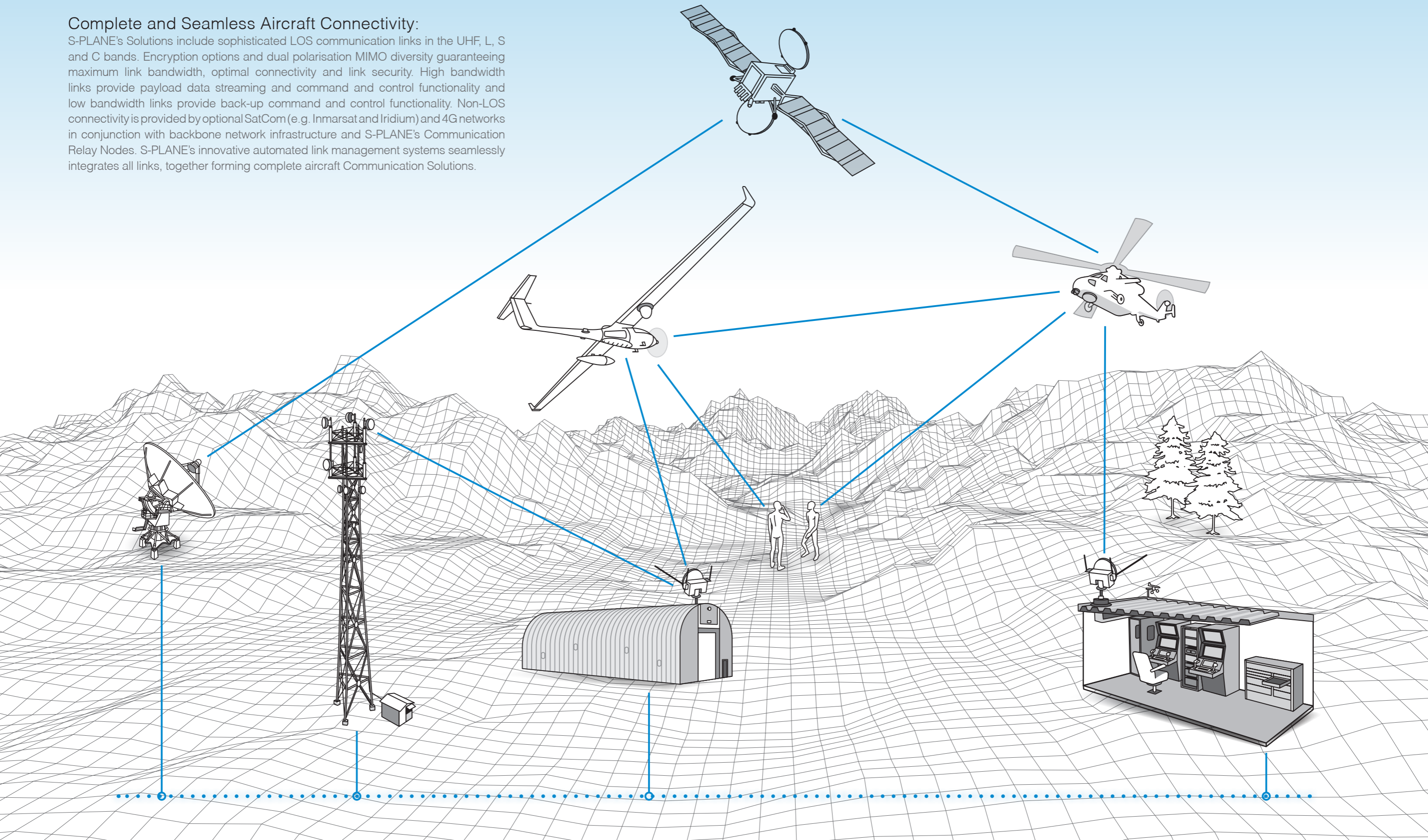
With S-PLANE's proven Communication Solutions, manned and unmanned aircraft enjoy exceptional RF link connectivity in both Line of Sight (LOS) and non-LOS conditions. The primary building blocks of these solutions are S-PLANE's TRACKER 100+ integrated antenna tracker product and industry-leading Satellite and Line-of-Sight communication links. S-PLANE provides system engineering, integration, flight testing and certification support in order to supply complete Communication Solutions.



Communication Solutions

Complete and Seamless Aircraft Connectivity:

S-PLANE's Solutions include sophisticated LOS communication links in the UHF, L, S and C bands. Encryption options and dual polarisation MIMO diversity guaranteeing maximum link bandwidth, optimal connectivity and link security. High bandwidth links provide payload data streaming and command and control functionality and low bandwidth links provide back-up command and control functionality. Non-LOS connectivity is provided by optional SatCom (e.g. Inmarsat and Iridium) and 4G networks in conjunction with backbone network infrastructure and S-PLANE's Communication Relay Nodes. S-PLANE's innovative automated link management systems seamlessly integrates all links, together forming complete aircraft Communication Solutions.



LOSCom

Radio Frequency (RF) links and antennas are integrated to the TRACKER 100+ and the aircraft to provide long-range Line of Sight (LOS) communication between aircraft and Ground Control Stations (GCSs). The links are especially suited for installation on-board aircraft, providing MIMO diversity mesh functionality to create and fit reliable and flexible network architectures. TRACKERs are easy to deploy and to use and are extremely rugged and reliable.

FEATURES:

150km to 300km LOSCom Range

- Tracker internally accommodates variety of RF links and antennas
- Directional and omni-directional antennas in the UHF, L, S and C bands
- MIMO diversity mesh radio functionality

Easy to Use

- GPS-based feedback tracking
- Bore-sight camera for viewing and calibration
- Quickly deploys with 2 crew

Rugged and Reliable

- Robust harmonic gearing with NO backlash
- Operational in up to 80km/h wind
- Packaged for transport in two rugged cases



SatCom

Non-Line of Sight (Non-LOS) connectivity is provided by optional Satellite Communication (SatCom) links. S-PLANE supplies Inmarsat certified L and K band SatCom link equipment and the data services (background IP and Streaming) required to keep aircraft connected to operators. This functionality is backed up by L band Iridium telemetry services to ensure that aircraft remain connected, always! LOSCom and SatCom are integrated and managed to ensure seamless, uninterrupted communication.

FEATURES:

Reliable SatCom

- Payload Streaming and C2 via Inmarsat
- Low-rate C2 backup via Iridium
- Certified equipment

Link Management

- Seamless LOSCom to SatCom transition
- Easy to use bandwidth management
- Minimum data cost for maximum mission benefit

Data Service Provision

- Background IP service
- Streaming service (1 to 4 bonded channels)
- Flexible, affordable data plans



Contact Details

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