

Image Intelligence in Real-Time



The SkyLink DP is a ruggedized deployable airborne omnidirectional antenna system. Designed to mount to the skid crosstube or aircraft step the SkyLink DP deploys below the landing skids eliminating the potential for interference caused by the airframe skids, or external payloads. Built with safety in mind, the mast of the SkyLink DP has a frangible link that will break away should the helicopter attempt to land with the antenna deployed.

Available in a variety of frequencies from UHF to Ku bands, Troll Systems' works with you to develop a system optimized to meet your requirements. Primarily an application specific design, the SkyLink DP's single or dual-polarized omnidirectional antennas can be customized to transmit within the parameters you establish.

Onboard the aircraft Troll's pilot panel is used to deploy the antenna and allows the pilot to lock the antenna in the up/safe position for landing. FAA approved and supplemental type certificate mounts are available for a variety of aircraft.

Troll's powerful Network LinkBox completes the transmission system with capabilities to provide bidirectional air-to-ground communications. The Network LinkBox controls all the microwave equipment including transmitters, receivers, encoders and decoders, onboard cameras, antennas and mapping systems.

At less than 15 lbs. total weight and 22 lbs drag @ 100 knots, the SkyLink DP is appropriate for all rotor-wing aircraft types. -

Air-to-Ground Ethernet Connectivity

SkyLink DP

Dual Frequency Airborne Microwave Data-Link w/ Interchangeable Antennas



Multi-Band Single or Diversity Antenna Option



Ruggedized construction

Unique frangible safety link

Easy to install and operate

Available in L Band to Ku band

Multiple antenna options

DO-160 tested

FAA approved Airbus step-mount

STC certified rotorcraft mounts for other aircraft

DO160 - Tested FAA Approved Deployable Omni-Antenna

SkyLink DP

SPECIFICATIONS

Specifications subject to change without notice.

SkyLink SP Physical Characteristics

Size Long Mast	32.5" + antenna (standard)
Size Short Mast	19.1" + antenna (optional)
Frontal Area	67 square inches + antenna
Weight	< 15 lbs (7kg) excluding mounting bracket
Input Voltage BusA primary	28VDC (supplied by Pilot Panel)
Input Voltage BusB secondary	28VDC (supplied by Network LinkBox)
Input Current	0.5A nominal, 5.0A max with external radios
Control	Full digital (RS-485) control interface utilizing Network LinkBox

Airborne Characteristics	VNE > 200 knots Drag @ 120 knots = 22 lbs.
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Antenna Application Specific Type	Available Options: Omni
Frequency Bands:	1.7GHz to 15GHz (specified)
Antenna Gains:	2dBi / 4dBi / 6dBi nominal
Polarizations:	LCP / RCP / Vertical

Options:	
Aircraft Mounting	Bell 430/407/206 and
SkyLink Deployable	Eurocopter AS350/ EC120/EC135
Omni Antenna	Other Aircraft consult factory

Control System	Troll Network LinkBox
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Pilot Panel



FAA Approved Deployable, Dual-Band Data-Link - US Army: UH-72 Lakota

The SkyLink DP has passed DO-160 tests:
DO-160 Mechanical testing categories:

- Temperature and Altitude
- Temperature Variation
 - Humidity
 - Vibration
 - Waterproofness
 - Sand and Dust
 - Salt Spray
 - Lightning Direct Effects

- DO-160 Electrical testing with EMI:
- Magnetic Effects
 - Power Input
 - Voltage Spike
 - Audio Frequency Conducted Susceptibility
 - Induced Signal Susceptibility
 - Radio Frequency Susceptibility
 - Emission of Radio Frequency Energy
 - Electrostatic Discharge



Direct Lightning Strike Effects
DO-160 Test

