SkyLink™ DP
Deployable Uni or Bidirectional Omni Dual Frequency Airborne Microwave Data-Link with Interchangeable Antennas

The SkyLink DP is a ruggedized deployable airborne omni 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, and 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 omni antennas can be customized to transmit within the parameters you establish.

Deployment is controlled via a pilot panel which shows the position of the antenna and allows the pilot to lock the antenna in the up/safe position for landing. Add Troll’s powerful Network LinkBox for a complete transmission system capable of bidirectional communications. The Network LinkBox controls all the microwave equipment including transmitters, receivers, encoders and decoders. Troll’s Network LinkBox also interfaces with onboard cameras, antennas and mapping systems.

At less than 20 lbs. total weight and 22 lbs drag @ 100 knots, the SkyLink DP is appropriate for all rotor-wing aircraft types.

- Ruggedized Construction
- Unique Frangible Safety Link
- Easy to Install and Operate
- Available in L Band to Ka Band
- Multiple Antenna Options
- DO-160 Tested
- FAA Approved Eurocopter Step-Mount
**SkyLink™ DP  L Band to Ka Band**

**D0160 - Tested Omni Antenna Solution**

### SkyLink DP Physical Characteristics

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Long Mast</td>
<td>32.5&quot; + antenna (standard)</td>
</tr>
<tr>
<td>Size Short Mast</td>
<td>19.1&quot; + antenna (optional)</td>
</tr>
<tr>
<td>Frontal Area</td>
<td>67 square inches + antenna</td>
</tr>
<tr>
<td>Weight</td>
<td>15 lbs (excluding mounting bracket)</td>
</tr>
<tr>
<td>Input Voltage BusA primary</td>
<td>28 VDC (supplied by Pilot Panel)</td>
</tr>
<tr>
<td>Input Voltage BusB secondary</td>
<td>28 VDC (supplied by C100 Control Headl)</td>
</tr>
<tr>
<td>Input Current</td>
<td>0.5A nominal, 5.0A max with external radios</td>
</tr>
<tr>
<td>Control</td>
<td>Full digital (RS-485) control interface utilizing AirTalk Protocol</td>
</tr>
<tr>
<td>Airborne Characteristics</td>
<td>VNE &gt; 200 knots</td>
</tr>
<tr>
<td></td>
<td>Drag @ 120 knots = 22 lbs.</td>
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</tbody>
</table>

### 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 Eurocopter AS350/ EC120/EC135
- **Omn Antenna**: Other Aircraft consult factory

### SkyLink Control System

- C100 - Map Based Microwave Controller

### The SkyLink DP has passed D0-160 tests:

- **D0-160 Mechanical testing categories:**
  - Temperature and Altitude
  - Temperature Variation
  - Humidity
  - Vibration
  - Waterproofness
  - Sand and Dust
  - Salt Spray
  - Lightning Direct Effects

- **D0-160 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

Visit us at our website for product and corporate information sessions. See video imagery of this system.

www.TROLLSYSTEMS.com

Specifications subject to change without notice.