SkyLink CG
Compact Gigabit Ethernet PTP Radio System

Delivering Scalable Bandwidth Licensed Microwave Solutions

Features

- Licensed band PTP digital microwave system for all FCC/NTIA/ETSI bands at 6/7/8/11/13/15/18/23/26/39 GHz
- Payload: Single GigE Electrical Port and Ethernet Switch
- Scalable GigE IP bandwidth - 15 to 310 Mbps Ethernet
- Scalable modulation - QPSK/16QAM/32QAM/64QAM/128QAM/256QAM
- 2xT1/E1 or 1xDS3/E3 optional interface available
- Simple capacity upgrades with software key
- Dynamic Adaptive Modulation and advanced forward error correction techniques for improved link performance
- Common compatible IDU for all ODU RF bands
- Compact IDU size of one RU and height and half 19-inch rack width
- Rugged single PCB design
- SNMP remote management
- User friendly Web GUI management solution
- High performance at unrivaled cost effectiveness

Applications

- Fixed Wireless Access & Fiber Network Extension
- Cellular, WiMAX, and WISP Backhaul
- Enterprise and Private Networks
- Government, Defense, and Public Safety Networks
- Critical Infrastructure Communications Redundancy
- Star, Cascade ("daisy chain"), or Ring/Consecutive Point Network Topologies

Cielo Networks, Inc.
2211 East Continental Blvd., Suite 150
Southlake, TX 76092
Tel: 1-817-488-9473
www.cielonetworks.com
## Technical Specifications

### SkyLink CG

<table>
<thead>
<tr>
<th>General Information</th>
<th>6 GHz</th>
<th>11 GHz</th>
<th>18 GHz</th>
<th>23 GHz</th>
<th>39 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Range</strong></td>
<td>QPSK</td>
<td>16QAM</td>
<td>32QAM</td>
<td>64QAM</td>
<td>128QAM</td>
</tr>
<tr>
<td>5.9-6.4 / 6.5-6.9 GHz</td>
<td>10 MHz</td>
<td>15 Mbps</td>
<td>30 Mbps</td>
<td>63 Mbps</td>
<td>95 Mbps</td>
</tr>
<tr>
<td><strong>Transmit Power</strong></td>
<td>25 dBm</td>
<td>22 dBm</td>
<td>17 dBm</td>
<td>17 dBm</td>
<td>25 dBm</td>
</tr>
<tr>
<td><strong>Receiver Sensitivity (BER 10e-6)</strong></td>
<td>-20 dBm</td>
<td>-20 dBm</td>
<td>-20 dBm</td>
<td>-20 dBm</td>
<td>-20 dBm</td>
</tr>
<tr>
<td><strong>Receiver Overload (BER 10e-6)</strong></td>
<td>-20 dBm</td>
<td>-20 dBm</td>
<td>-20 dBm</td>
<td>-20 dBm</td>
<td>-20 dBm</td>
</tr>
</tbody>
</table>

### Payload
- **Ethernet:** 15 to 310 Mbps
- **T1/E1:** 0/2
- **DS3/E3:** 0/1

### Physical Interfaces
- **Ethernet:** 1xRJ-45 10/100/100Base-TX
- **T1/E1:** 2xRJ-48c
- **DS3/E3:** BNC

### Modem/IF Module
- **IDU:** N - Female
- **ODU:** N - Female
- **Frequency:** TX: 350 MHz / RX: 140 MHz

### Power
- **Input Voltage:** -48VDC: -36 to -72 VDC
- **Interface:** 4 Pin Phoenix Contact
- **Power Consumption:** 1+0: 72W

### Management
- **Remote Access:** SNMP V1, V2C
- **Web-Based GUI**
- **Telnet - Command Line Interface**
- **Interface:** 10/100Base-TX, RJ-45 (out-of-band), 10/100/1000Base-TX (In-Band)

### Environmental
- **Indoor Unit**
  - **Operating Temperature:** -5° to +45°C
  - **Relative Humidity:** 0 to 95%, non-condensing
  - **Altitude:** 4,500 m
- **Outdoor Unit**
  - **Operating Temperature:** -33° to +55°C
  - **Relative Humidity:** 0 to 100%
  - **Altitude:** 4,500 m

### Mechanical
- **Indoor Unit**
  - **Size:** 8.5W x 7.9D x 1.8H inches (1RU)
  - **Weight:** 5.0 pounds
- **Outdoor Unit**
  - **Size:** 10.5 dia x 3.5 deep inches
  - **Weight:** 10.1 pounds

---

**Cielo Networks, Inc.**
2211 East Continental Blvd., Suite 150
Southlake, TX 76092
Tel: 1-817-488-9473
www.cielonetworks.com

All specifications are subject to change. Cielo Networks, Inc. proprietary and confidential information. Copyright Cielo Networks, Inc. 2011
Revision: 02/11a