CIMScan®'s new PD-07 and PD-08 spread spectrum radio modem Pods add wireless networking capability to any CIMScan system. The new modems can be used indoors or outdoors and operate in the 900 MHz or 2.4 GHz unlicensed bands. As with any other I/O Pod, the PD-07/08's operate from an unregulated 10-30 Vdc power source and can operate in a typical industrial environment. Remote operation from battery power is easily accomplished.

Each unit can function either as a master, a slave, or as a repeater. Multiple repeaters can be used to provide communications around obstructions or over long distances. There is no limit to the number of repeaters that can be used in the system and each repeater can also act as a slave, with I/O Pods attached. Internal CRC and forward error correction ensures reliable communications in any configuration.

The new modem Pods come in two versions. The "A" series devices provide an RS-232 interface for use at the host computer or at some remote instrument. The "B" units have a standard PodNet interface (RS-485).

### FEATURES
- License-Free Operation
- Point-To-Point and Point-To-Multipoint Modes
- Long Range (up to 10 mi.)
- Can be used as a Repeater to Extend Range
- Works Indoors through Walls and Floors
- Spread Spectrum Reliability
- Easy to Install and Configure
- Rugged Compact Design
- Powered by 10-30 Vdc
- Built-in Diagnostics

### PHYSICAL DIMENSIONS

- **Antenna Connector (Male Reverse SMA)**
- **Rugged Aluminum Case and End Caps**

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>PD-07</th>
<th>PD-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Throughput</td>
<td>up to 9,600 bps</td>
<td></td>
</tr>
<tr>
<td>Indoor Range</td>
<td>600-1500'</td>
<td>300-750'</td>
</tr>
<tr>
<td>Outdoor Range</td>
<td>7-20 mi.</td>
<td>3-12 mi.</td>
</tr>
<tr>
<td>Output Power</td>
<td>100 mW</td>
<td></td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>902-928 MHz</td>
<td>2.40-2.48 GHz</td>
</tr>
<tr>
<td>Operating Mode</td>
<td>Frequency Hopping Spread Spectrum</td>
<td></td>
</tr>
<tr>
<td>Receiver Sensitivity</td>
<td>-110 dBm</td>
<td>-104 dBm</td>
</tr>
<tr>
<td>Hopping Patterns</td>
<td>25 channels in 7 sequences</td>
<td></td>
</tr>
<tr>
<td>Error Detection</td>
<td>CRC-16 with auto retransmit</td>
<td></td>
</tr>
<tr>
<td>Power Requirements</td>
<td>10-30 Vdc unregulated</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>1.5W</td>
<td>2 W</td>
</tr>
<tr>
<td>Antenna Connector</td>
<td>Male Reverse SMA (50 ohm unbal.)</td>
<td></td>
</tr>
<tr>
<td>Indicators</td>
<td>Power/Transmit &amp; Signal Strength</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>4.96&quot;x1.02&quot;x2.25&quot;</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 420 grams (0.9 lbs)</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to +70°C (-40 to +85°C Available)</td>
<td></td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10-90% RH non-condensing</td>
<td></td>
</tr>
<tr>
<td>Approvals</td>
<td>FCC, IC</td>
<td>FCC, IC, CE, ETSI</td>
</tr>
</tbody>
</table>
A NETWORK WITH THREE SEPARATE ADDRESS GROUPS

900 Mhz (PD-07) Range

- Indoor: 600' to 1,500'
- Outdoor: 7 mi. with simple dipole to over 20 mi. (line of site) with high gain yagi

2.4 Mhz (PD-08) Range

- Indoor: 150' to 375'
- Outdoor: 1.4 mi. with simple dipole to over 12 mi. (line of site) with high gain yagi

ANTENNA POSSIBILITIES

- Omni Directional Rubber Whip Antenna
- Omni Directional Indoor/Outdoor
- Indoor Directional (Planar)
- Outdoor High Gain Yagi

- Shipped with Each Unit
- Pole or Ceiling Mount
- Articulating Wall Mount
- Pole Mount

General Specifications

- 0°C ~ +70°C Operating Temp.
- Powered from 10 to 30 Vdc
- Optically Isolated up to 5,000V
- FCC Class A, FM, & CE Mark Approval

DISTRIBUTED BY

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