Sub-6 GHz Antenna Guide
Parabolic and Sector Antenna Selection Guide

**PTP Parabolic**

- **N050067D017A**
  - 5.25-5.85 GHz, 2 ft (0.6m), Single-Pol
  - Dish Size: 0.6 m (2 ft)
  - Frequency: 5.25–5.85 GHz
  - Gain: 29.5 dBi
  - Polarity: Single
  - Connector: N-Type Female
  - Mounting Brackets: Included

- **RDH4513B**
  - 5.25-5.85 GHz, 3 ft (0.9m), Single-Pol
  - Dish Size: 0.9 m (3 ft)
  - Frequency: 5.25–5.85 GHz
  - Gain: 33 dBi
  - Polarity: Single
  - Connector: N-Type Female
  - Mounting Brackets: Included

- **N050067D018A**
  - 5.25-5.85 GHz, 4 ft (1.2m), Single-Pol
  - Dish Size: 1.2 m (4 ft)
  - Frequency: 5.25–5.85 GHz
  - Gain: 35.4 dBi
  - Polarity: Single
  - Connector: N-Type Female
  - Mounting Brackets: Included

- **N050067D019A**
  - 5.25-5.85 GHz, 6 ft (1.8m), Single-Pol
  - Dish Size: 1.8 m (6 ft)
  - Frequency: 5.25-5.85 GHz
  - Gain: 38.4 dBi
  - Polarity: Single
  - Connector: N-Type Female
  - Mounting Brackets: Included
Parabolic and Sector Antenna Selection Guide

PTP Parabolic

**RDH4503C**
- Standard Performance 4.9-6 GHz, 2 ft (0.6m), Dual-Pol antenna with 2 x N-type Connector
- Dish Size: 0.6 m (2 ft)
- Frequency: 4.9-6 GHz
- Gain: 29.8 dBi
- Polarity: Dual
- Connector: 2 x N-type Connector
- Mounting Brackets: Included

**RDH4504C**
- Standard Performance 4.9-6 GHz, 3 ft (0.9m), Dual-Pol antenna with 2 x N-type Connector
- Dish Size: 0.9 m (3ft)
- Frequency: 4.9-6 GHz
- Gain: 33 dBi
- Polarity: Dual
- Connector: 2 x N-type Connector
- Mounting Brackets: Included

**RDH4505C**
- Standard Performance 4.9-6 GHz, 4 ft (1.2m), Dual-Pol antenna with 2 x N-type Connector
- Dish Size: 1.2 m (4 ft)
- Frequency: 4.9-6 GHz
- Gain: 35.4 dBi
- Polarity: Dual
- Connector: 2 x N-type Connector
- Mounting Brackets: Included

**RDH4506C**
- Standard Performance 4.9-6 GHz, 6 ft (1.8m), Dual-Pol antenna with 2 x N-type Connector
- Dish Size: 1.8 m (6 ft)
- Frequency: 4.9-6 GHz
- Gain: 38.4 dBi
- Polarity: Dual
- Connector: 2 x N-type Connector
- Mounting Brackets: Included
Parabolic and Sector Antenna Selection Guide

PTP Parabolic

**RDH4508C**
High Performance 4.9-6 GHz, 2 ft (0.6m), Dual-Pol antenna with 2 x N-type Connector
Dish Size: 0.6 m (2 ft)
Frequency: 4.9-6 GHz
Gain: 29.3 dBi
Polarity: Dual
Connector: 2 x N-type Connector
Mounting Brackets: Included

**RDH4509C**
High Performance 4.9-6 GHz, 3 ft (0.9m), Dual-Pol antenna with 2 x N-type Connector
Dish Size: 0.9 m (3ft)
Frequency: 4.9-6 GHz
Gain: 32.8 dBi
Polarity: Dual
Connector: 2 x N-type Connector
Mounting Brackets: Included

**RDH4510C**
High Performance 4.9-6 GHz, 4 ft (1.2m), Dual-Pol antenna with 2 x N-type Connector
Dish Size: 1.2 m (4 ft)
Frequency: 4.9-6 GHz
Gain: 34.7 dBi
Polarity: Dual
Connector: 2 x N-type Connector
Mounting Brackets: Included

**RDH4511C**
High Performance 4.9-6 GHz, 6 ft (1.8m), Dual-Pol antenna with 2 x N-type Connector
Dish Size: 1.8 m (6 ft)
Frequency: 4.9-6 GHz
Gain: 38.2 dBi
Polarity: Dual
Connector: 2 x N-type Connector
Mounting Brackets: Included
# Parabolic and Sector Antenna Selection Guide

## PTP Parabolic

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<thead>
<tr>
<th>Antenna Type</th>
<th>N050067D017A</th>
<th>RDH4503C</th>
<th>RDH4508C</th>
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<td>0.6 m (2 ft)</td>
<td>0.6 m (2 ft)</td>
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<td>Gain</td>
<td>29.5 dBi</td>
<td>29.8 dBi</td>
<td>29.3 dBi</td>
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<td>Operating Frequency</td>
<td>5.25–5.85 GHz</td>
<td>4.9-6 GHz</td>
<td>4.9-6 GHz</td>
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<tr>
<td>3 dB Beamwidth</td>
<td>6.1º</td>
<td>6.2º</td>
<td>6.1º</td>
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<tr>
<td>Polarization</td>
<td>Single</td>
<td>Dual</td>
<td>Dual</td>
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<tr>
<td>F/B</td>
<td>38 dB</td>
<td>38 dB</td>
<td>44 dB</td>
</tr>
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<td>VSWR</td>
<td>1.5:1</td>
<td>1.5:1</td>
<td>1.5:1</td>
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<th>RDH4504C</th>
<th>RDH4509C</th>
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<td>0.9 m (3 ft)</td>
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<td>33 dBi</td>
<td>32.8 dBi</td>
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<tr>
<td>Operating Frequency</td>
<td>5.25–5.85 GHz</td>
<td>4.9-6 GHz</td>
<td>4.9-6 GHz</td>
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<td>3 dB Beamwidth</td>
<td>4.2º</td>
<td>4.2º</td>
<td>4.2º</td>
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<td>Dual</td>
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<td>F/B</td>
<td>40 dB</td>
<td>40 dB</td>
<td>46 dB</td>
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<td>VSWR</td>
<td>1.5:1</td>
<td>1.5:1</td>
<td>1.5:1</td>
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<th>RDH4505C</th>
<th>RDH4510C</th>
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<tbody>
<tr>
<td>Dish size</td>
<td>1.2 m (4 ft)</td>
<td>1.2 m (4 ft)</td>
<td>1.2 m (4 ft)</td>
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<tr>
<td>Gain</td>
<td>35.4 dBi</td>
<td>35.4 dBi</td>
<td>34.7 dBi</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>5.25–5.85 GHz</td>
<td>4.9-6 GHz</td>
<td>4.9-6 GHz</td>
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<tr>
<td>3 dB Beamwidth</td>
<td>3º</td>
<td>3.1º</td>
<td>3º</td>
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<tr>
<td>Polarization</td>
<td>Single</td>
<td>Dual</td>
<td>Dual</td>
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<tr>
<td>F/B</td>
<td>44 dB</td>
<td>44 dB</td>
<td>49 dB</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5:1</td>
<td>1.5:1</td>
<td>1.5:1</td>
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<thead>
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<th>RDH4506C</th>
<th>RDH4511C</th>
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<tbody>
<tr>
<td>Dish size</td>
<td>1.8 m (6 ft)</td>
<td>1.8 m (6 ft)</td>
<td>1.8 m (6 ft)</td>
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<td>38.4 dBi</td>
<td>38.4 dBi</td>
<td>38.2 dBi</td>
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<td>Operating Frequency</td>
<td>5.25–5.85 GHz</td>
<td>4.9-6 GHz</td>
<td>4.9-6 GHz</td>
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<tr>
<td>3 dB Beamwidth</td>
<td>2º</td>
<td>2.1º</td>
<td>2º</td>
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<tr>
<td>Polarization</td>
<td>Single</td>
<td>Dual</td>
<td>Dual</td>
</tr>
<tr>
<td>F/B</td>
<td>46 dB</td>
<td>46 dB</td>
<td>52 dB</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5:1</td>
<td>1.5:1</td>
<td>1.5:1</td>
</tr>
</tbody>
</table>
Parabolic and Sector Antenna Selection Guide

**PMP SECTOR**

### **85009324001**

5.4-6.0 GHz, Antenna for 90 Degree Sector

- **Dimensions**: 57h x 14.6w x 6.4d
- **Frequency**: 5.4-6.0 GHz
- **Gain**: 17dBi
- **Polarity**: Dual
- **Connector**: N-Type Female
- **Mounting Brackets**: Included

### **85009325001**

5.4-6.0 GHz, Antenna for 60 Degree Sector

- **Dimensions**: 46.8hx14.6wx6.4d
- **Frequency**: 5400-6000 MHz
- **Gain**: 17dBi
- **Polarity**: Dual
- **Connector**: N-Type Female
- **Mounting Brackets**: Included

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<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>85009324001</th>
<th>85009325001</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>57h x 14.6w x 6.4d</td>
<td>46.8hx14.6wx6.4d</td>
</tr>
<tr>
<td>Gain</td>
<td>17dBi</td>
<td>17dBi</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>5.4-6.0 GHz</td>
<td>5.4-6.0 GHz</td>
</tr>
<tr>
<td>3 dB Beamwidth</td>
<td>Azimuth 65°, Elevation 6°</td>
<td>Azimuth 45°, Elevation 8°</td>
</tr>
<tr>
<td>Polarization</td>
<td>Dual</td>
<td>Dual</td>
</tr>
<tr>
<td>F/B</td>
<td>V-pol&gt;32 dB, H-pol&gt;35 dB</td>
<td>35 dB</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5:1</td>
<td>1.5:1</td>
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</tbody>
</table>
Parabolic and Sector Antenna Selection Guide

**PMP SECTOR**

**C050900D025A**  
ePMP Dual Horn MU-MIMO Antenna, 5 GHz, 60 degree  
Dimensions: 30.5h x 21.5w x 23.1d  
Frequency: 5100 - 6100 MHz  
Gain: 12 dBi  
Polarity: Dual  
Connector: 4x RP SMA  
Mounting Brackets: Included

**C050910D301A**  
ePMP 4x4 MU-MIMO Sector Antenna (for ePMP3000AP)  
Dimensions: 59.4h x 15.7w x 11d  
Frequency: 4.9 to 5.9 GHz  
Gain: 17dBi  
Polarity: Dual  
Connector: 4x RP SMA  
Mounting Brackets: Included

**C050900D021B**  
Antenna, 5 GHz, 90/120 with Mounting Kit  
Dimensions: 59.4h x 15.7w x 11d  
Frequency: 5 GHz  
Gain: 18 dBi  
Polarity: Dual  
Connector: 2x RP SMA  
Mounting Brackets: Included

<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>C050900D025A</th>
<th>C050910D301A</th>
<th>C050900D021B</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>30.5h x 21.5w x 23.1d</td>
<td>59.4h x 15.7w x 11d</td>
<td>59.4h x 15.7w x 11d</td>
</tr>
<tr>
<td>Gain</td>
<td>12 dBi</td>
<td>17dBi</td>
<td>18 dBi</td>
</tr>
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<td>Operating Frequency</td>
<td>5100 - 6100 MHz</td>
<td>4.9 to 5.9 GHz</td>
<td>5 GHz</td>
</tr>
<tr>
<td>3 dB Beamwidth</td>
<td>Azimuth 60°</td>
<td>Azimuth 70°, Elevation 6°</td>
<td>Azimuth 90°, Elevation 6°</td>
</tr>
<tr>
<td>Polarization</td>
<td>Dual</td>
<td>Dual</td>
<td>Dual</td>
</tr>
<tr>
<td>F/B</td>
<td>28 dB</td>
<td>30 dB</td>
<td>35 dB</td>
</tr>
<tr>
<td>VSWR</td>
<td>2.0:1</td>
<td>2.0:1</td>
<td>2.0:1</td>
</tr>
</tbody>
</table>
Parabolic and Sector Antenna Selection Guide

**PMP SECTOR**

**C050000D004**
4.9 to 5.9 GHz, Dual-Pol 90 Degree Sector Antenna with Mounting Bracket
- Dimensions: 59.4h x 15.7w x 11d
- Frequency: 4.9 to 5.9 GHz
- Gain: 17dBi
- Polarity: Dual
- Connector: N-Type Female
- Mounting Brackets: Included

**C030045D901A**
3.3-3.8 GHz Dual Slant Antenna for 90 Degree Sector
- Dimensions: 71.5h x 12.3w x 6.8d
- Frequency: 3.3-3.8 GHz
- Gain: 17dBi
- Polarity: Dual
- Connector: N-Type Female
- Mounting Brackets: Included

**C024045D601A**
2.4 GHz Antenna for 60 Degree Sector
- Dimensions: 112.2hx24.5wx11.7d
- Frequency: 2400-2480 MHz
- Gain: 18dBi
- Polarity: Dual
- Connector: N-Type Female
- Mounting Brackets: Included
**Parabolic and Sector Antenna Selection Guide**

**PMP SECTOR**

**N025000D001A**
MTI 65 degree Sector Antenna, 17 dBi
- Dimensions: 113.4h x 21w x 8.5d
- Frequency: 2.3-2.7 GHz
- Gain: 17dBi
- Polarity: Dual
- Connector: N-Type Female
- Mounting Brackets: Included

**C024900D004A**
ePMP 1000: 2.4 GHz Sector 90/120 Antenna w/Mount
- Dimensions: 82.7h x 16.1w x 5.9d
- Frequency: 2.4 GHz
- Gain: 15 dBi
- Polarity: Dual
- Connector: N-Type Female
- Mounting Brackets: Included

**N009045D001A**
900 MHz 60 degree Sector Antenna (Dual Slant)
- Dimensions: 88L x 28.8w x 13.2h
- Frequency: 900 MHz
- Gain: 13 dBi
- Polarity: Dual
- Connector: 2-Type N Female
- Mounting Brackets: Included

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<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>N025000D001A</th>
<th>C024900D004A</th>
<th>N009045D001A</th>
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<tbody>
<tr>
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<td>Sector</td>
<td>Sector</td>
<td>Sector</td>
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<tr>
<td>Dimensions</td>
<td>113.4h x 21w x 8.5d</td>
<td>82.7h x 16.1w x 5.9d</td>
<td>88L x 28.8w x 13.2h</td>
</tr>
<tr>
<td>Gain</td>
<td>17 dBi</td>
<td>15 dBi</td>
<td>13 dBi</td>
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<tr>
<td>Operating Frequency</td>
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<td>2.4 GHz</td>
<td>900 MHz</td>
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<td>3 dB Beamwidth</td>
<td>Azimuth 70°±5°</td>
<td>Azimuth 90°, Elevation 11°</td>
<td>Azimuth 65°, Elevation 23°</td>
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<tr>
<td>Polarization</td>
<td>Dual</td>
<td>Dual</td>
<td>Dual</td>
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<tr>
<td>F/B</td>
<td>30 dB</td>
<td>30 dB</td>
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<td>VSWR</td>
<td>2.0:1</td>
<td>1.7:1</td>
<td>1.7:1</td>
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Parabolic and Sector Antenna Selection Guide

**PMP SECTOR**

**N009045D003A**

900 MHz 12 dBi gain directional antenna (Dual Slant)

Dimensions: 105.6L

Frequency: 900 MHz

Gain: 12 dBi

Polarity: Dual

Connector: 2x RP SMA Male

Mounting Brackets: Included

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<th>Specification</th>
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<td>Antenna Type</td>
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<td>Dimensions</td>
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<td>3 dB Beamwidth</td>
<td>Azimuth 45°</td>
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<td>50 dB</td>
</tr>
<tr>
<td>VSWR</td>
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**ABOUT CAMBIUM NETWORKS**

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.

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