



# ACCESSORIES GUIDE

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# Sub-6 GHz Antenna Guide

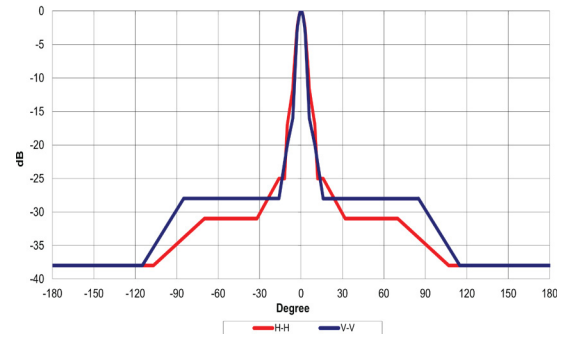
## Parabolic and Sector Antenna Selection Guide

### PTP Parabolic



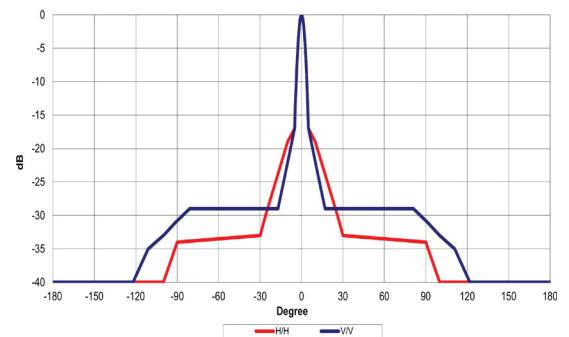
#### N050067D017A

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



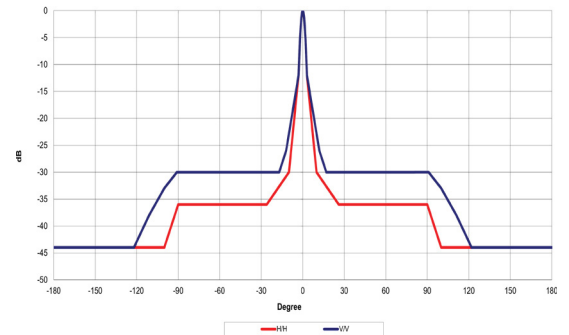
#### RDH4513B

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



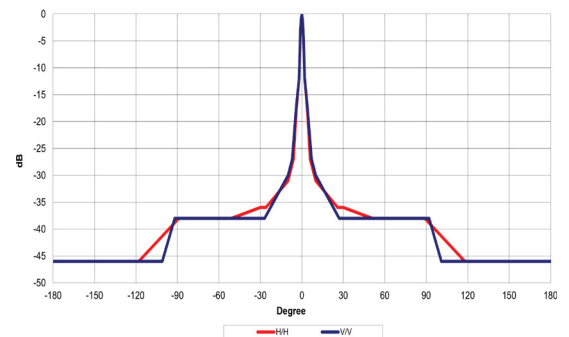
#### N050067D018A

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)

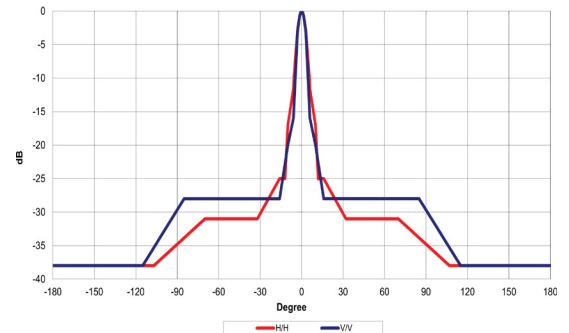
Frequency: 4.9-6 GHz

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)

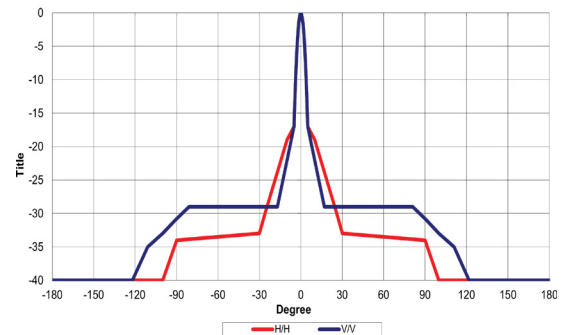
Frequency: 4.9-6 GHz

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)

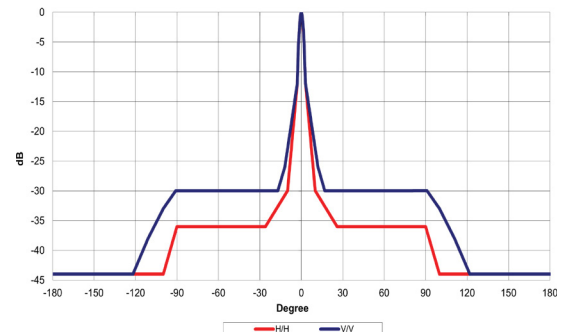
Frequency: 4.9-6 GHz

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)

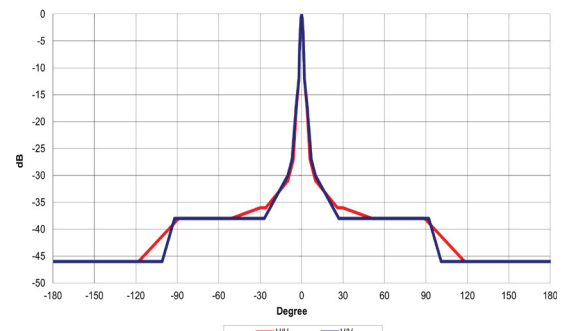
Frequency: 4.9-6 GHz

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)

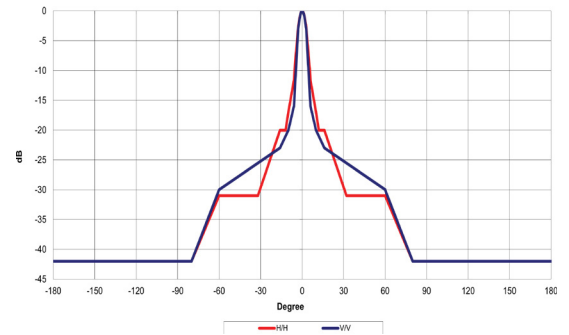
Frequency: 4.9-6 GHz

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)

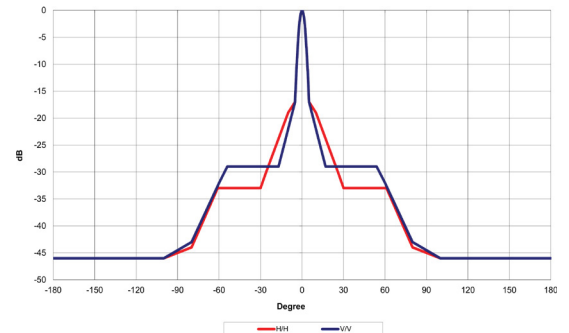
Frequency: 4.9-6 GHz

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)

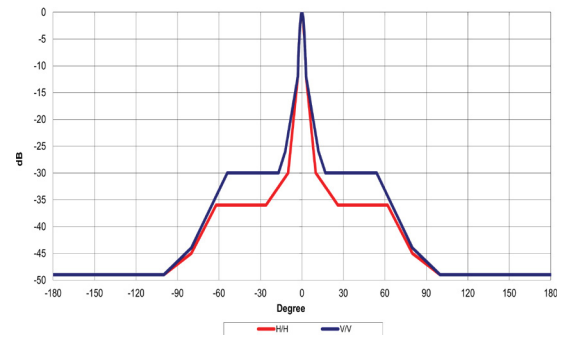
Frequency: 4.9-6 GHz

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)

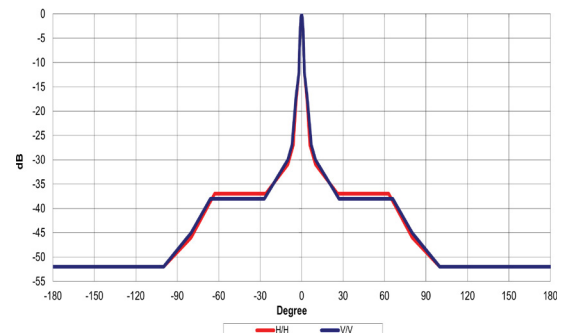
Frequency: 4.9-6 GHz

Gain: 38.2 dBi

Polarity: Dual

Connector: 2 x N-type Connector

Mounting Brackets: Included



## Parabolic and Sector Antenna Selection Guide

### PTP Parabolic

	<b>N050067D017A</b>	<b>RDH4503C</b>	<b>RDH4508C</b>
<b>Antenna Type</b>	Parabolic	Parabolic	Parabolic
<b>Dish size</b>	0.6 m (2 ft)	0.6 m (2 ft)	0.6 m (2 ft)
<b>Gain</b>	29.5 dBi	29.8 dBi	29.3 dBi
<b>Operating Frequency</b>	5.25–5.85 GHz	4.9-6 GHz	4.9-6 GHz
<b>3 dB Beamwidth</b>	6.1°	6.2°	6.1°
<b>Polarization</b>	Single	Dual	Dual
<b>F/B</b>	38 dB	38 dB	44 dB
<b>VSWR</b>	1.5:1	1.5:1	1.5:1

	<b>RDH4513B</b>	<b>RDH4504C</b>	<b>RDH4509C</b>
<b>Antenna Type</b>	Parabolic	Parabolic	Parabolic
<b>Dish size</b>	0.9 m (3 ft)	0.9 m (3 ft)	0.9 m (3 ft)
<b>Gain</b>	33 dBi	33 dBi	32.8 dBi
<b>Operating Frequency</b>	5.25–5.85 GHz	4.9-6 GHz	4.9-6 GHz
<b>3 dB Beamwidth</b>	4.2°	4.2°	4.2°
<b>Polarization</b>	Single	Dual	Dual
<b>F/B</b>	40 dB	40 dB	46 dB
<b>VSWR</b>	1.5:1	1.5:1	1.5:1

	<b>N050067D018A</b>	<b>RDH4505C</b>	<b>RDH4510C</b>
<b>Antenna Type</b>	Parabolic	Parabolic	Parabolic
<b>Dish size</b>	1.2 m (4 ft)	1.2 m (4 ft)	1.2 m (4 ft)
<b>Gain</b>	35.4 dBi	35.4 dBi	34.7 dBi
<b>Operating Frequency</b>	5.25–5.85 GHz	4.9-6 GHz	4.9-6 GHz
<b>3 dB Beamwidth</b>	3°	3.1°	3°
<b>Polarization</b>	Single	Dual	Dual
<b>F/B</b>	44 dB	44 dB	49 dB
<b>VSWR</b>	1.5:1	1.5:1	1.5:1

	<b>N050067D019A</b>	<b>RDH4506C</b>	<b>RDH4511C</b>
<b>Antenna Type</b>	Parabolic	Parabolic	Parabolic
<b>Dish size</b>	1.8 m (6 ft)	1.8 m (6 ft)	1.8 m (6 ft)
<b>Gain</b>	38.4 dBi	38.4 dBi	38.2 dBi
<b>Operating Frequency</b>	5.25-5.85 GHz	4.9-6 GHz	4.9-6 GHz
<b>3 dB Beamwidth</b>	2°	2.1°	2°
<b>Polarization</b>	Single	Dual	Dual
<b>F/B</b>	46 dB	46 dB	52 dB
<b>VSWR</b>	1.5:1	1.5:1	1.5:1

## 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

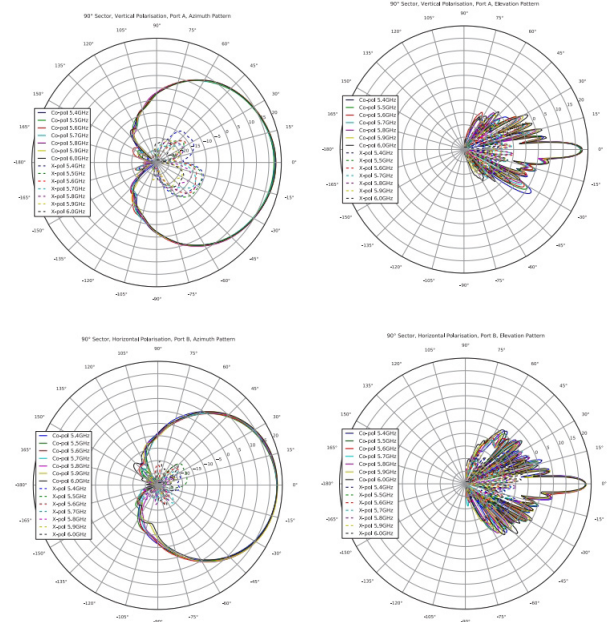
Frequency: 5.4-6.0 GHz

Gain: 17dBi

Polarization: Dual

Connector: N-Type Female

Mounting Brackets: Included



#### 85009325001

5.4-6.0 GHz, Antenna for 60 Degree Sector

Dimensions: 46.8h x 14.6w x 6.4d

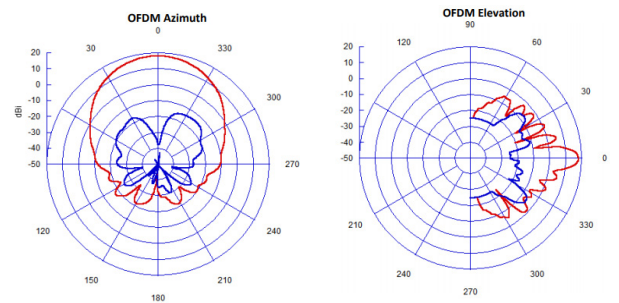
Frequency: 5400-6000 MHz

Gain: 17dBi

Polarization: Dual

Connector: N-Type Female

Mounting Brackets: Included



	85009324001	85009325001
Antenna Type	Sector	Sector
Dimensions	57h x 14.6w x 6.4d	46.8h x 14.6w x 6.4d
Gain	17dBi	17dBi
Operating Frequency	5.4-6.0 GHz	5.4-6.0 GHz
3 dB Beamwidth	Azimuth 65°, -Elevation 6°	Azimuth 45°, Elevation 8°
Polarization	Dual	Dual
F/B	V-pol > 32 dB, H-pol > 35 dB	35 dB
VSWR	1.5:1	1.5:1



## 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

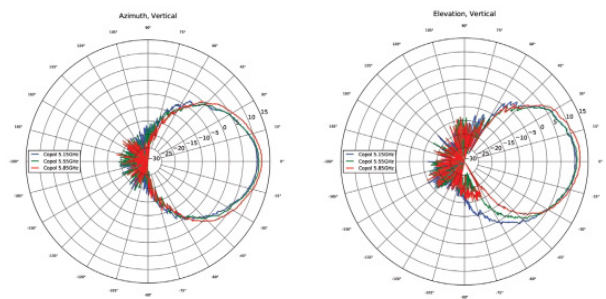
Frequency: 5100 - 6100 MHz

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

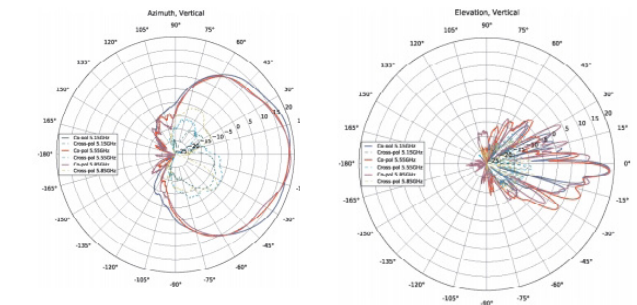
Frequency: 4.9 to 5.9 GHz

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

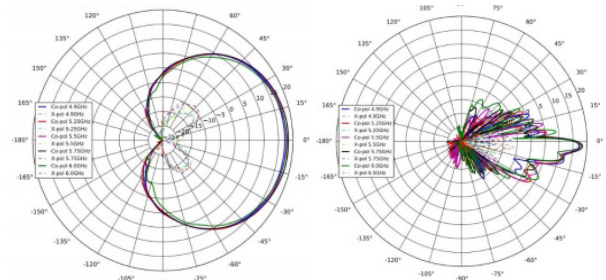
Frequency: 5 GHz

Gain: 18 dBi

Polarity: Dual

Connector: 2x RP SMA

Mounting Brackets: Included



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

## 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

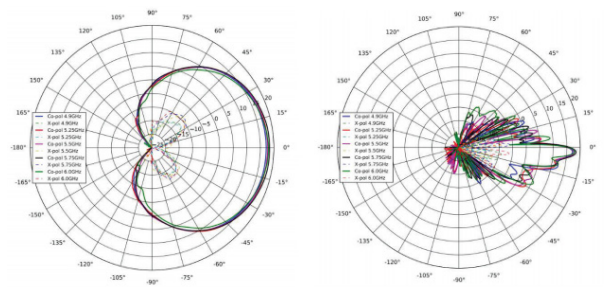
Frequency: 4.9 to 5.9 GHz

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

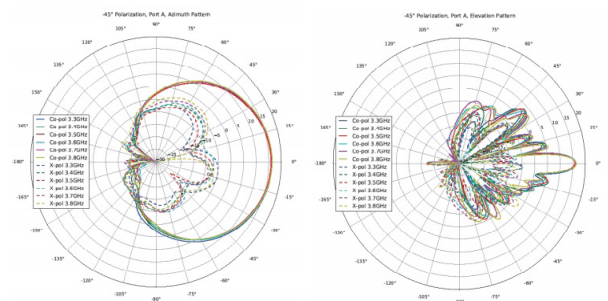
Frequency: 3.3-3.8 GHz

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

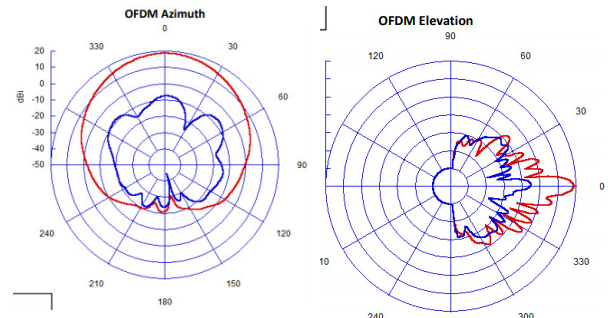
Frequency: 2400-2480 MHz

Gain: 18dBi

Polarity: Dual

Connector: N-Type Female

Mounting Brackets: Included



	C050000D004	C030045D901A	C024045D601A
<b>Antenna Type</b>	Sector	Sector	Sector
<b>Dimensions</b>	59.4h x 15.7w x 11d	71.5h x 12.3w x 6.8d	112.2hx24.5wx11.7d
<b>Gain</b>	17dBi	17dBi	18dBi
<b>Operating Frequency</b>	4.9 to 5.9 GHz	3.3-3.8 GHz	2.4-2.48 GHz
<b>3 dB Beamwidth</b>	Azimuth 90°, Elevation 6°	Azimuth 65°, -Elevation 7°	Azimuth 52°, Elevation 6°
<b>Polarization</b>	Dual	Dual	Dual
<b>F/B</b>	35 dB	>35 dB, 180 ± 30°	>32 dB, 180 ± 30°
<b>VSWR</b>	2.0:1	1.5:1	1.5:1

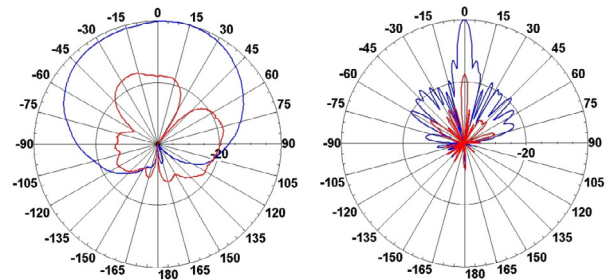


## Parabolic and Sector Antenna Selection Guide

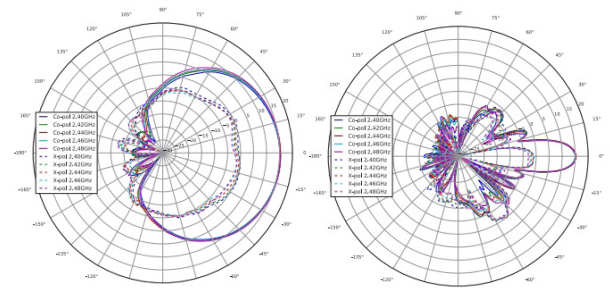
### PMP Sector



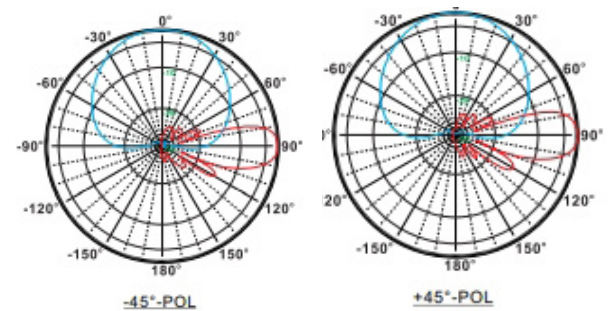
**N025000D001A**  
 MTI 65 degree Sector Antenna,  
 17 dBi  
 Dimensions: 113.4h x 21w x 8.5d  
 Frequency: 2.3-2.7 GHz  
 Gain: 17dBi  
 Polarity: Dual  
 Connector: N-Type Female  
 Mounting Brackets: Included



**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



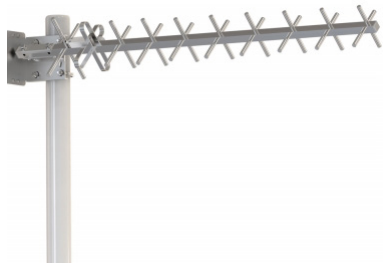
**N009045D001A**  
 900 MHz 60 degree Sector Antenna  
 (Dual Slant)  
 Dimensions: 88L x 28.8w x 13.2h  
 Frequency: 900 MHz  
 Gain: 13 dBi  
 Polarity: Dual  
 Connector: 2-Type N Female  
 Mounting Brackets: Included



	<b>N025000D001A</b>	<b>C024900D004A</b>	<b>N009045D001A</b>
<b>Antenna Type</b>	Sector	Sector	Sector
<b>Dimensions</b>	113.4h x 21w x 8.5d	82.7h x 16.1w x 5.9d	88L x 28.8w x 13.2h
<b>Gain</b>	17 dBi	15 dBi	13 dBi
<b>Operating Frequency</b>	2.3-2.7 GHz	2.4 GHz	900 MHz
<b>3 dB Beamwidth</b>	Azimuth 70°±5°	Azimuth 90°, Elevation 11°	Azimuth 65°, Elevation 23°
<b>Polarization</b>	Dual	Dual	Dual
<b>F/B</b>	30 dB	30 dB	30dB
<b>VSWR</b>	2.0:1	1.7:1	1.7:1

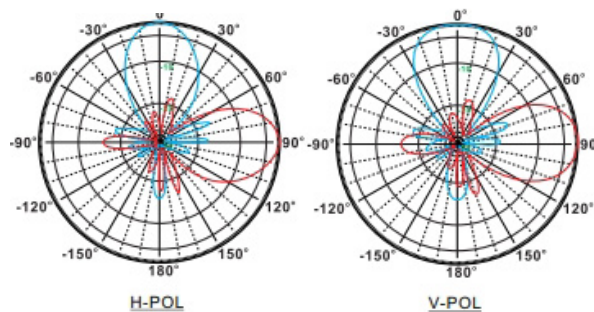
## Parabolic and Sector Antenna Selection Guide

### 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



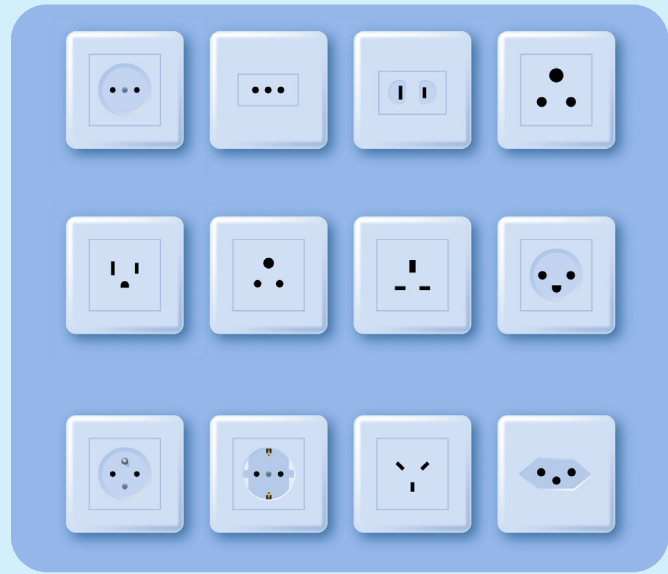
N009045D003A	
Antenna Type	Sector
Dimensions	105.6L
Gain	12 dBi
Operating Frequency	900 MHz
3 dB Beamwidth	Azimuth 45°
Polarization	Dual
F/B	50 dB
VSWR	1.7:1

# Power Accessories

PoE Injectors, AC Line Cords and External Power Supplies

## QUICK LOOK:

Power supply accessories for various Cambium Networks products along with product power requirements and power supply compatibility matrix.

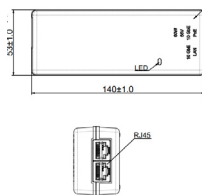


### PoE Injectors

**C000000L141A**  
56 V, 30 W, 10 GbE



C6 AC INLET



**C000065L002D**  
58V AC + DC, 100 W, GbE



IEC60320 C8



**N000045L056A**  
56 VDC, 30 W, GbE

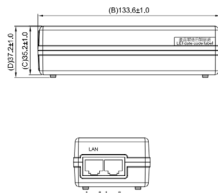
DC IN SCREW TERMINAL



**N000065L001C**  
56 V, 60 W, GbE



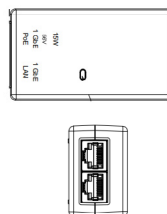
C8 AC INLET



**N000900L017B**  
56 V, 15 W, GbE

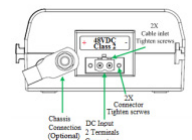


C6 AC INLET



**N000000L036A**  
48 VDC, 60 W, GbE

DC IN SCREW TERMINAL



Power Accessories

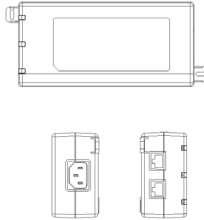
PoE Injectors

**N000082L164A**

56 V, 90 W, GbE



IEC320 C14

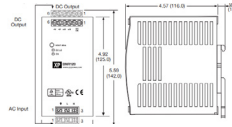


**N000000L129A**

48 V, 120 W



SCREW TERMINAL



**N000000L179B**

54 V, 100 W

DIRECT WIRE



**N000000L054B**

54 V, 240 W

DIRECT WIRE



**N000900L017A**

56 VDC, 15 W, GbE



C6 AC INLET



**N000065L001C**

56 VDC, 30.5 W, GbE



C8 AC INLET



**N000900L001D**

30 VDC, 15 W, GbE



C6 AC INLET



**N000000L034B**

56 VDC, 30.5 W, GbE



C6 AC INLET



**N000000L142A**

56 VDC, 60 W, 5 GbE



C6 AC INLET



**C000065L002C**

58 VDC, 100 W, GbE



C8 AC INLET



## Power Accessories

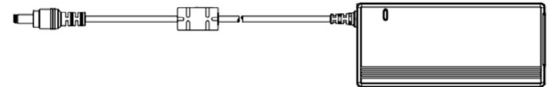


C6 AC INLET

### AX-12VDCXXA-WW

12 VDC, 3 A POWER SUPPLY  
2.1 mm x 5.5 mm x 11 mm CP  
DC CONNECTOR

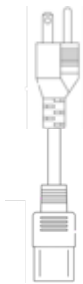
Use with:  
R190V/R190W/R200/R201,  
Anywhere an AP has a 12VDC,  
2.1mm DC CONNECTOR WITH  
POWER REQUIREMENT LESS  
THAN 30.5 WATTS (36W \* 85%)



## AC Mains Line Cords - C13 AC Connector

### N000900L040A

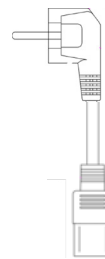
US TYPE B  
1.2 m LENGTH



C14 AC INLET

### N000900L041A

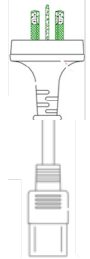
US TYPE F  
1.2 m LENGTH



C14 AC INLET

### N000900L042A

AU/NZ TYPE 1  
1.2 m LENGTH



C14 AC INLET

### N000900L043B

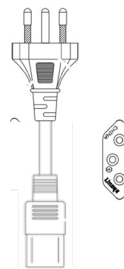
IN TYPE D  
1.2 m LENGTH



C14 AC INLET

### N000900L044A

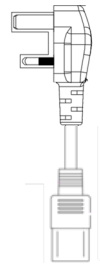
BR TYPE N  
1.2 m LENGTH



C14 AC INLET

### N000900L045A

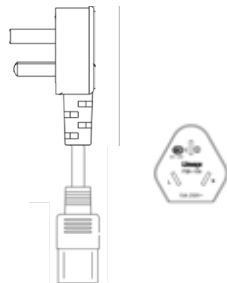
UK TYPE G  
1.2 m LENGTH



C14 AC INLET

### N000900L046A

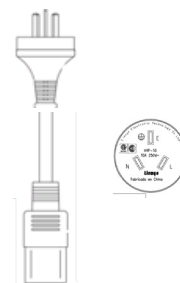
CN TYPE 1  
1.2 m LENGTH



C14 AC INLET

### N000900L047A

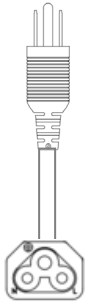
AR TYPE 1  
1.2 m LENGTH



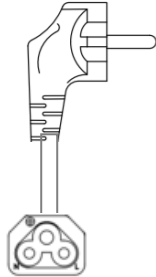
C14 AC INLET

Power Accessories

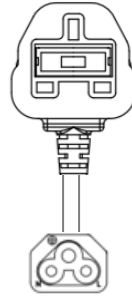
AC Mains Line Cords - C5 AC Connector



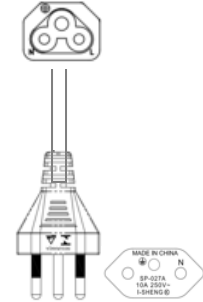
**N000900L007A**  
US TYPE B  
0.30 m LENGTH



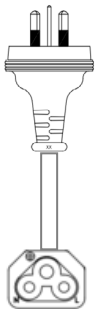
**N000900L008A**  
EU TYPE F  
0.40 m LENGTH



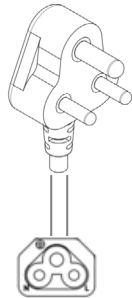
**N000900L009A**  
UK TYPE G  
0.40 m LENGTH



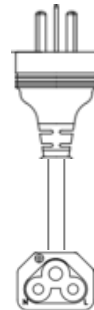
**N000900L010A**  
BR TYPE N  
0.40 m LENGTH



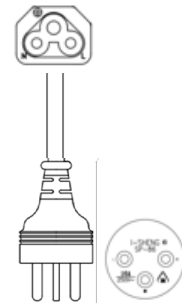
**N000900L011A**  
AU/NZ TYPE I  
0.72 m LENGTH



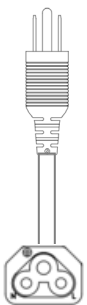
**N000900L012A**  
IN TYPE D  
0.72 m LENGTH



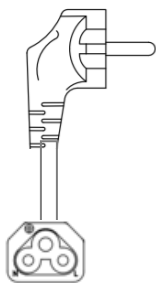
**N000900L013A**  
AR TYPE I  
0.72 m LENGTH



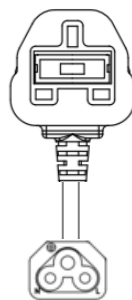
**N000900L015A**  
CN TYPE H  
0.40 m LENGTH



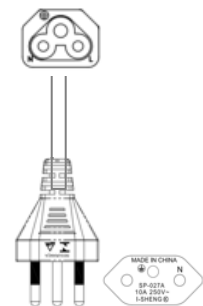
**N000900L031A**  
US TYPE B  
0.72 m LENGTH



**N000900L032A**  
EU TYPE F  
0.72 m LENGTH



**N000900L033A**  
UK TYPE G  
0.72 m LENGTH

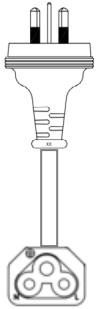


**N000900L034A**  
BR TYPE N  
0.72 m LENGTH



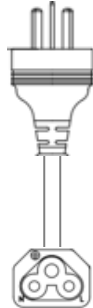
## Power Accessories

### AC Mains Line Cords - C5 AC Connector



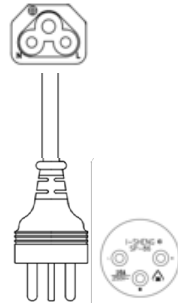
**N000900L035A**

AU/NZ TYPE I  
0.40 m LENGTH



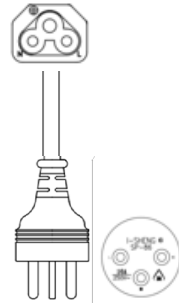
**N000900L036A**

AR TYPE I  
0.40 m LENGTH



**N000900L037A**

IL TYPE H  
0.70 m LENGTH



**N000900L038A**

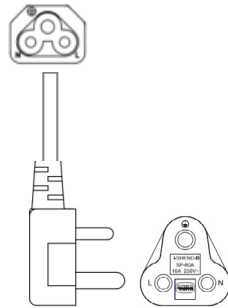
IL TYPE H  
0.40 m LENGTH

**N000900L048A**

ZA TYPE M  
0.72 m LENGTH

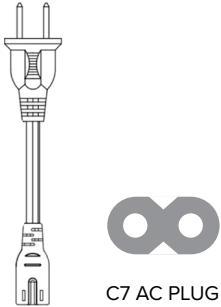
Used with:

- Force 300
- ePMP 3000
- R190V
- R190W



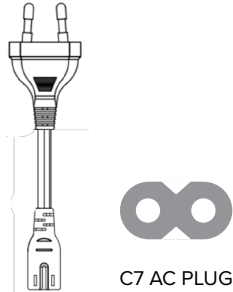
Power Accessories

AC Mains Line Cords - C7 AC Connector



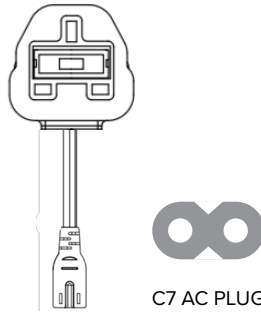
C7 AC PLUG

**N000900L050A**  
US TYPE A - 2 PRONG  
0.67 m LENGTH



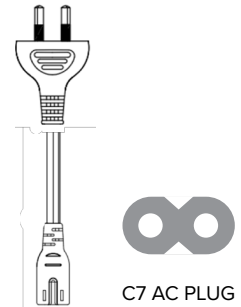
C7 AC PLUG

**N000900L051A**  
EU TYPE C  
0.67 m LENGTH



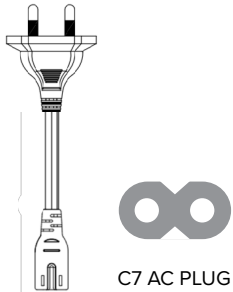
C7 AC PLUG

**N000900L052A**  
UK TYPE G  
0.67 m LENGTH



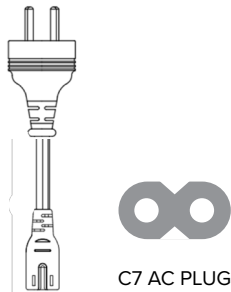
C7 AC PLUG

**N000900L053A**  
AU/NZ TYPE I - 2 PRONG  
0.67 m LENGTH



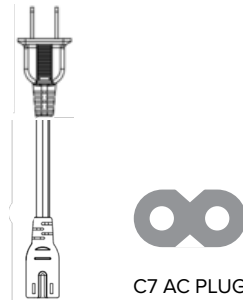
C7 AC PLUG

**N000900L054A**  
IN TYPE D - 2 PRONG  
0.67 m LENGTH



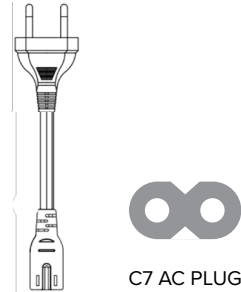
C7 AC PLUG

**N000900L054A**  
AR TYPE 1 - 2 PRONG  
0.67 m LENGTH



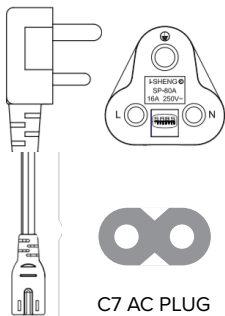
C7 AC PLUG

**N000900L056A**  
CN TYPE I - 2 PRONG  
0.67 m LENGTH



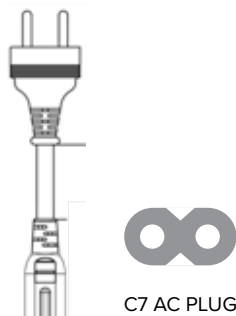
C7 AC PLUG

**N000900L057A**  
BR TYPE N - 2 PRONG  
0.67 m LENGTH



C7 AC PLUG

**N000900L058A**  
ZA TYPE M  
0.67 m LENGTH



C7 AC PLUG

**N000900L091A**  
EU TYPE F  
0.67 m LENGTH

## Power Accessories

### Specifications

PoE INJECTORS	Description	Type of Input connectors	Type of output connectors	Type of Input power	Watt	Volts	op efficiency	Installation	Temp	IP Rating	Ethernet speed
<b>C000000L141A</b>	PoE, 60W, 56V, 10GbE DC Injector, Indoor, Energy Level 6 Supply	3-wire AC inlet I C6	RJ45	AC	60W	56V	Level 6	Indoor	0°C to 50°C	X	10G
<b>C000065L002D</b>	AC+DC Enhanced Power Injector 58V	DC in screw terminals /2-wire AC inlet (IEC60320 C8)	RJ45 / Dcout screw terminals	AC + DC	100W	58V	Level 6	ID/ OD	(-40°C to 50°C)	IP20	1G
<b>N000000L034B</b>	PoE, 30.5W, 56V, GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector	3-wire AC inlet I C6	RJ45	AC	30W	56V	Level 6	Indoor	0°C to 50°C	X	1G
<b>N000000L142A</b>	PoE, 60W, 56V, 5GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector	3-wire AC inlet I C6	RJ45	AC	60W	56V	Level 6	Indoor	0°C to 50°C	X	5G
<b>N000045L056A</b>	PoE Gigabit DC Injector, 24V DC Input, 56V/625mA 802.3at Output	DC in Screw terminal plugs	RJ45	DC	30W	56V	82%	Indoor	(-40°C to 70°C)	X	1G
<b>N000065L001C</b>	AC power Injector 56V, 60W	2-wire AC inlet; IEC60320 C8	RJ45	AC	60W	56V	Level 6	Indoor	0°C to 50°C	X	1G
<b>N000900L001D</b>	PoE Gigabit DC Injector, 15W Output at 30V, Energy Level 6 Supply	3-wire AC inlet I C6	RJ45	AC	15w	30V	Level 6	Indoor	0°C to 40°C	X	1G
<b>N000900L017A</b>	PoE, 15.4W, 56V, GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector	3-wire AC inlet I C6	RJ45	AC	15.4w	56V	Level 6	Indoor	0°C to 50°C	X	1G
<b>N000900L017B</b>	PoE Gigabit DC Injector, 15W Output at 56V, Energy Level 6, 0C to 40C	3-wire AC inlet I C6	RJ45	AC	15w	56V	Level 6	Indoor	0°C to 50°C	X	1G
<b>N000000L036A</b>	Power over Ethernet midspan, 60 W, -48 VDC Input	DCin Screw terminal plugs	RJ45	DC	60W	48V	80%	Indoor	20°C to 30°C	X	1G
<b>N000082L164A</b>	PTP 820C INDOOR AC POE INJECTOR, 90W	IEC320 C14	RJ45	AC	90W	56V	Level 6	Indoor	(-10°C to 40°C)	X	1G
<b>N000000L129A</b>	XP Power 120W PSU for cnRanger BBU and RRH	Screw terminal	Dcout Screw terminal	AC	120W	48V	90%	Indoor	(-40°C to 60°C)	X	X
<b>N000000L179B</b>	Outdoor AC/DC PSU, 100W, 54VDC	Direct wire	Direct wire	AC+DC	100W	54V	93%	ID/ OD	(-55°C to 70°C)	IP65	X
<b>N000000L054B</b>	Power Supply, AC, 54V 240W	Direct wire	Direct wire	AC + DC	240W	54V	94%	ID/ OD	(-55°C to 70°C)	IP65	X

### LINE CORDS

<b>N000065L003A</b>	US Line Cord Fig 8	<b>N000900L040A</b>	AC line cord, US Type B, 1.2m C13 connector
<b>N000065L004A</b>	UK Line Cord Fig 8	<b>N000900L041A</b>	AC line cord, EU Type F angled, 1.2m C13 connector
<b>N000065L005A</b>	EU Line Cord Fig 8	<b>N000900L042A</b>	AC line cord, AU Type I, 1.2m C13 connector
<b>N000065L006A</b>	Australia Line Cord Fig 8	<b>N000900L043A</b>	AC line cord, IN Type D angled, 1.2m C13 connector
<b>N000900L011A</b>	AC line cord, AU Type I, 720mm, C5 connector	<b>N000900L043B</b>	AC line cord, IN BIS Type D angled, 1.9m C13 connector
<b>N000900L012A</b>	AC line cord, IN Type D angled, 720mm, C5 connector	<b>N000900L044A</b>	AC line cord, BR Type N, 1.2m C13 connector
<b>N000900L013A</b>	AC line cord, AR Type I, 720mm, C5 connector	<b>N000900L045A</b>	AC line cord, UK Type G angled, 1.2m C13 connector
<b>N000900L015A</b>	AC line cord, CN Type I, 720mm, C5 connector	<b>N000900L046A</b>	AC line cord, CN Type I angled, 1.2m C13 connector
<b>N000900L031A</b>	AC line cord, US Type B, 720mm, C5 connector	<b>N000900L047A</b>	AC line cord, AR Type I, 1.2m C13 connector
<b>N000900L032A</b>	AC line cord, EU Type F angled, 720mm, C5 connector	<b>N000900L048A</b>	AC line cord, ZA Type M angled, 720mm, C5 connector
<b>N000900L033A</b>	AC line cord, UK Type G angled, 720mm, C5 connector	<b>N000900L055A</b>	AC line cord, AR Type I angled, 670mm C7 connector
<b>N000900L034A</b>	AC line cord, BR Type N, 720mm, C5 connector		

## Power Accessories

### Product Power Requirements and Power Supply Compatibility Matrix

Product	Volts	Wattage	With AUX Power	AC input PoE Injector	AC+DC Power Supply	DC input PoE	AC input Power Supply
PTP 550	56V	30W	X	N000000L034B	X	X	X
PTP 550E	56V	30W	X	N000000L034B	X	X	X
PTP 670	56V	35W	70W	N000065L001C	C000065L002D	X	X
PTP 45700	56V	40W	70W	X	C000065L002D	X	X
PTP 78700	56V	70W	100W	X	C000065L002D	X	X
60GHz cnWave V1000	56V	10W	X	N000900L017A	X	X	X
60GHz cnWave V3000	56V	30W	60W	N000000L142A, C000000L141A, N000065L001C	N000000L179B	X	X
60GHz cnWave V5000	56V	35W	65W	N000000L142A, C000000L141A, N000065L001C	N000000L179B	X	X
PMP 450	30V	15W	X	N000900L001D	X	X	X
PMP 450i	56V	30W	60W	N000000L034B, N000065L001C	C000065L002D	N000000L036A	X
PMP 450b	30V	15W	X	N000900L001D	X	X	X
5Ghz PMP 450m	56V	80W	110W	X	C000065L002D	X	X
3Ghz PMP 450m	56V	150W	180W	X	N000000L054B	X	X
ePMP 3000	56V	30W	X	N000000L034B	X	X	X
ePMP 3000L	30V	15W	X	N000900L001D	X	X	X
ePMP 3000 MP	56V	15W	X	N000900L017A	X	X	X
ePMP Force 180	30V	15W	X	N000900L001D	X	X	X
ePMP Force 190	30V	15W	X	N000900L001D	X	X	X
ePMP Force 200	30V	15W	X	N000900L001D	X	X	X
ePMP Force 200L	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300-13	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300-13L	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300-16	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300-19	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300-19R	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300-25	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300-25L	30V	15W	X	N000900L001D	X	X	X
ePMP Force 300	30V	15W	X	N000900L001D	X	X	X
ePMP Force 425	56V	30W	X	N000000L034B	X	X	X
ePMP Force 400C	56V	30W	X	N000000L034B	X	X	X
2GHz cnRanger 101 SM	30V	7.5W	X	N000900L001D	X	X	X
2GHz cnRanger 201 SM	30V	9W	X	N000900L001D	X	X	X
3GHz cnRanger 201 SM	30V	9W	X	N000900L001D	X	X	X
3GHz cnRanger RRH	48V	60W	X	X	X	X	N000000L129A
2GHz cnRanger RRH	48V	72W	X	X	X	X	N000000L129A

# SFP Guide

## SFP Module Selection Guide

### Gigabit SFPs



#### **C000065L008A**

Single-Mode Optical 1000BaseLX SFP Interface per ODU

Speed: 1 G

Mode: Single

Wavelength: 1310nm

Kit Contents: SFP Module, Cable Gland (P16 Long), Licence Key document

Spare Glands: N000000L140A

Product Support: PTP 650/670, PTP 45700

Operating Temperature: (-40°C to +85°C)



#### **C050055L003A**

PTP 550 SFP Single-Mode Optical 1000BaseLX SFP Interface per ODU

Speed: 1 G

Mode: Single

Wavelength: 1310nm

Kit Contents: SFP Module, Cable Gland (P16 Long)

Spare Glands: N000000L140A

Product Support: PTP 550/550E

Operating Temperature: (-40°C to +85°C)



#### **N000082L059A**

PTP 820 SFP Optical 1000Base-LX,EXT TEMP, 1310 nm, Single-Mode

Speed: 1 G

Mode: Single

Wavelength: 1310nm

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-40°C to +85°C)



#### **N000082L213A**

PTP 820 SFP, single fiber,1490nm Tx/1310nm Rx, SM, EXT TEMP

Speed: 1 G

Mode: Single

Wavelength: 1490nm TX & 1310 RX

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-10°C to +70°C)

## SFP Module Selection Guide

### Gigabit SFPs



#### **N000082L214A**

PTP 820 SFP, single fiber, 1310nm Tx/1490nm Rx, SM, EXT TEMP

Speed: 1 G

Mode: Single

Wavelength: 1310nm TX & 1490 RX

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-10°C to +70°C)



#### **N800082L010A**

PTP 820 CSFP, 1310nm Tx/1490nm Rx, SM, EXT TEMP

Speed: 1 G

Mode: Single

Wavelength: 1310nm TX & 1490 RX

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-40°C to +85°C)



#### **N800082L011A**

PTP 820 CSFP, 1490nm Tx/1310nm Rx, SM, EXT TEMP

Speed: 1 G

Mode: Single

Wavelength: 1490nm TX & 1310 RX

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-40°C to +85°C)



#### **SFP-1G-LX**

1G SFP SMF LX Transceiver, 1310nm. -40C to 85C

Speed: 1 G

Mode: Single

Wavelength: 1310nm

Kit Contents: SFP Module

Spare Glands: C000000L124A-cnWave, N000000L140A-PMP 450m

Product Support: 60GHz cnWave (V3000, V5000) cnMatrix, PMP 450m, cnRanger

Operating Temperature: (-40°C to +85°C)



## SFP Module Selection Guide

### Gigabit SFPs



#### **C000065L009A**

Multi-mode Optical 1000BaseSX SFP Interface per ODU

Speed: 1 G

Mode: Multi

Wavelength: 850nm

Kit Contents: SFP Module, Cable Gland (P16 Long), Licence Key document

Spare Glands: N000000L140A

Product Support: PTP 650/670, PTP 45700

Operating Temperature: (-40°C to +85°C )



#### **C050055L002A**

PTP 550 SFP Multi-mode Optical 1000BaseSX SFP Interface per ODU

Speed: 1 G

Mode: Multi

Wavelength: 850nm

Kit Contents: SFP Module, Cable Gland (P16 Long)

Spare Glands: N000000L140A

Product Support: PTP 550/550E

Operating Temperature: (0°C to +70°C )



#### **N000082L072A**

PTP 820 SFP Optical 1000Base-SX,EXT TEMP, 850 nm, Multi-Mode

Speed: 1 G

Mode: Multi

Wavelength: 850nm

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-40°C to +85°C )



#### **SFP-1G-SX**

1G SFP MMF SX Transceiver, 850nm. -40C to 85C

Speed: 1 G

Mode: Multi

Wavelength: 850nm

Kit Contents: SFP Module

Spare Glands: C000000L124A-cnWave,N000000L140A-PMP 450m

Product Support: 60GHz cnWave (V3000, V5000), cnMatrix, PMP 450m, cnRanger

Operating Temperature: (-40°C to +85°C )

## SFP Module Selection Guide

### Gigabit SFPs



#### **C000065L010A**

Gigabit Ethernet 1000BaseT SFP Interface per ODU

Speed: 1 G

Mode: Gigabit-Ethernet

Wavelength: NA

Kit Contents: SFP Module, Cable Gland (P16 Long), Licence Key document

Spare Glands: N000000L140A

Product Support: PTP 650/670, PTP 45700

Operating Temperature: (-40°C to +85°C )



#### **C050055L001A**

PTP 550 SFP Interface for Gigabit Ethernet 1000BaseT per ODU

Speed: 1 G

Mode: Gigabit-Ethernet

Wavelength: NA

Kit Contents: SFP Module, Cable Gland (P16 Long)

Spare Glands: N000000L140A

Product Support: PTP 550/550E

Operating Temperature: (-40°C to +85°C )



#### **N000082L117A**

PTP 820 SFP Electric Int 1000Base-T,EXT TEMP

Speed: 1 G

Mode: Gigabit-Ethernet

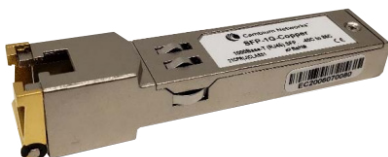
Wavelength: NA

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-40°C to +85°C )



#### **SFP-1G-COPPER**

1000Base-T (RJ45) SFP Transceiver. -40C to 85C

Speed: 1 G

Mode: Gigabit-Ethernet

Wavelength: NA

Kit Contents: SFP Module

Spare Glands: C000000L124A-cnWave, N000000L140A-PMP 450m

Product Support: 60GHz cnWave (V3000, V5000), cnMatrix, PMP 450m, cnRanger

Operating Temperature: (-40°C to +85°C )

## SFP Module Selection Guide

### Multi-Gigabit SFPs



#### **N800082L013A**

PTP 820/850 SFP+, 1310nm,SM, 10Gbit, Industrial Grade

Speed: 10 G

Mode: Single

Wavelength: 1310nm

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820 / PTP 850

Operating Temperature: (-40°C to +85°C )



#### **SFP-10G-LR**

10G SFP+ SMF LR Transceiver, 1310nm. -40C to 85C

Speed: 10 G

Mode: Single

Wavelength: 1310nm

Kit Contents: SFP Module

Spare Glands: C000000L124A-CnWave

Product Support: 60GHz cnWave (V3000, V5000), cnMatrix, cnRanger

Operating Temperature: (-40°C to +85°C )



#### **N800082L012A**

PTP 820 SFP+, 850nm,MM, 10Gbit, Industrial Grade

Speed: 10 G

Mode: Multi

Wavelength: 850nm

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 820/850

Operating Temperature: (-40°C to +85°C )



#### **SFP-10G-SR**

10G SFP+ MMF SR Transceiver, 850nm. -40C to 85C

Speed: 10 G

Mode: Multi

Wavelength: 850nm

Kit Contents: SFP Module

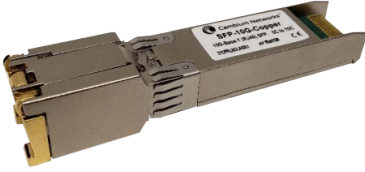
Spare Glands: C000000L124A-CnWave

Product Support: 60GHz cnWave (V3000, V5000), cnMatrix, cnRanger

Operating Temperature: (-40°C to +85°C )

## SFP Module Selection Guide

### Multi-Gigabit SFPs



#### **SFP-10G-COPPER**

10G Base-T (RJ45) SFP Transceiver. 0C to 70C

Speed: 10 G

Mode: Gigabit-Ethernet

Wavelength: NA

Kit Contents: SFP Module

Spare Glands: C000000L124A-CnWave

Product Support: 60GHz cnWave (V3000, V5000), cnMatrix, cnRanger

Operating Temperature: (0°C to +70°C )

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#### **N000082L203A**

PTP 850 QSFP Transceiver

Speed: 40 G

Mode: Multi

Wavelength: 850nm

Kit Contents: SFP Module

Spare Glands: N000082L014A

Product Support: PTP 850

Operating Temperature: (-40°C to +85°C )

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## SFP Module Selection Guide

**SFP Product Compatibility Table**

Product	1G 850nm	1G 1310nm	1G Copper	1G SFP 1490nmTx/ 1310nm Rx	1G SFP 1310nmTx/ 1490nm Rx	1G CSFP 1490nmTx/ 1310nm Rx	1G SFP C1310nmTx/ 1490nm Rx	10G 850nm	10G 1310nm	10G Copper	40G
PTP 550	C050055L002A	C050055L003A	C050055L001A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 550E	C050055L002A	C050055L003A	C050055L001A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 670	C000065L009A	C000065L008A	C000065L010A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 45700	C000065L009A	C000065L008A	C000065L010A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 48700	N000070L016A	N000070L015A	N000070L017A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 820E	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N/A
PTP 820F	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 820G	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 820S	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 820C HP	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 820C	N000082L072A	N000082L059A	N000082L117A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTP 850E	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N000082L203A
PTP 850C	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N/A
PTP 850S	N000082L072A	N000082L059A	N000082L117A	N000082L213A	N000082L214A	N800082L011A	N800082L010A	N800082L012A	N800082L013A	N/A	N000082L203A
V3000	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
V5000	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
PMP 450m	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EX1010	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EX1010-P	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EX1028	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EX1028-P	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EX2010	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EX2010-P	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EX2028	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
EX2028-P	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
EX2016M-P	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
EX2052	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
EX2052-P	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
EX2052R-P	SFP-1G-SX	SFP-1G-LX	SFP-1G-Copper	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A
cnRanger RRH 2 and 3 GHz	SFP-1G-SX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cnRanger Sierra 800 BBU	SFP-1G-SX	N/A	N/A	N/A	N/A	N/A	N/A	SFP-10G-SR	SFP-10G-LR	SFP-10G-Copper	N/A

# Cable Guide

## Cable Selection Guide

### RJ45

Name	Description	Length (meters)	Type
WB3176A	328 ft (100 m) Reel Outdoor Copper Clad CAT5E (Recommended for PTP)	100	CAT5E
N000000L155A	CAT6A Outdoor Cable, 100m	100	CAT6A
WB3175A	1000 ft Reel Outdoor Copper Clad CAT5E (Recommended for PTP)	304.8	CAT5E
N000082L172B	CAT6A Outdoor Cable, 305m	305	CAT6A

### Coaxial

Name	Description	Length (meters)
30010194001	50 Ohm Braided Coaxial Cable - 75 meters	75
30010195001	50 Ohm Braided Coaxial Cable - 500 meters	500

### DC Cable

Name	Description	Length (meters)
N000000L130A	cnRanger RRH DC power cable (2 meters)	2
N000000L115A	4-Conductor 0.75mm x2 DC cable – 100m	100
N000082L181A	PTP 820 Outdoor DC Cable, 10AWG, 150m, M28 Gland to Open End	150
N000082L182A	PTP 820 Outdoor DC Cable, 10AWG, 200m, M28 Gland to Open End	200
N000082L183A	PTP 820 Outdoor DC Cable, 10AWG, 250m, M28 Gland to Open End	250
N000000L117A	4-Conductor 0.75mm x2 DC cable – 300m	300
N000000L118A	4-Conductor 1mm x2 DC cable – 300m	300
N000082L184A	PTP 820 Outdoor DC Cable, 10AWG, 300m, M28 Gland to Open End	300



## Cable Selection Guide

### Optical

<b>Name</b>	<b>Description</b>	<b>Length (meters)</b>	<b>Mode</b>
<b>N000082L215A</b>	Optical Cable, MM, 1m	1	Multi Mode Fiber
<b>N000000L131A</b>	cnRanger RRH CPRI Fiber cable (2 meterS)	2	Multi Mode Fiber
<b>N000082L176A</b>	PTP 820 Optical Cable,SM, 5m	5	Single Mode Fiber
<b>N000082L192A</b>	Optical Cable, MM, 10m	10	Multi Mode Fiber
<b>N000082L187A</b>	Optical Cable, SM, 10m	10	Single Mode Fiber
<b>N000082L194A</b>	Optical Cable, MM, 30m	30	Multi Mode Fiber
<b>N000082L205A</b>	Optical Cable, MPO(F)/MPO(F),4P,Type B,30m,MM,OM4,M28 Gland,ARM	30	Multi Mode Fiber
<b>N000082L139A</b>	Optical Cable,SM, 30m	30	Single Mode Fiber
<b>N000082L206A</b>	Optical Cable,MPO(F)/MPO(F),4P,Type B,50m,MM,OM4,M28 Gland,ARM	50	Multi Mode Fiber
<b>N000082L140A</b>	Optical Cable, SM, 50m	50	Single Mode Fiber
<b>N000082L196A</b>	Optical Cable, MM, 80m	80	Multi Mode Fiber
<b>N000082L207A</b>	Optical Cable,MPO(F)/MPO(F),4P,Type B,80m,MM,OM4,M28 Gland,ARM	80	Multi Mode Fiber
<b>N000082L141A</b>	Optical Cable, SM, 80m	80	Single Mode Fiber
<b>N000082L208A</b>	Optical Cable, MPO(F)/MPO(F),4P,Type B,100m,MM,OM4,M28 Gland,ARM	100	Multi Mode Fiber
<b>N000082L142A</b>	Optical Cable, SM, 100m	100	Single Mode Fiber
<b>N000082L198A</b>	Optical Cable, MM, 150m	150	Multi Mode Fiber
<b>N000082L209A</b>	Optical Cable, MPO(F)/MPO(F),4P,Type B,150m,MM,OM4,M28 Gland,ARM	150	Multi Mode Fiber
<b>N000082L143A</b>	Optical Cable, SM, 150m	150	Single Mode Fiber

## Cable Selection Guide

### Miscellaneous

Name	Description
N000000L127A	Cable Assy, Shielded, 4C Stereo Plug -3.5MM TO RJ45
30009406002	N-to-N CABLE (16")
RDN5785A	3 M (9.8 FT) Superflex RF Low Loss Jumper Cable
07009304001	Hoisting Grip for CNT-400 cable
7009304001	Hoisting Grip for CNT-400 cable
N000082L057A	PTP 820 External Alarms open cable 2.5m
N000082L060A	PTP 820C MIMO or Prot management cable 10m
N000082L061A	PTP 820C MIMO or Prot management cable 1m
N000082L136A	PTP 820C/S MIMO or Prot management cable 20m
N000082L122A	PTP 820G Ethernet split cable for Management
N000082L023A	PTP 820 16E1 cable MDR68-RJ45 3M,LA,cross
N000082L024A	PTP 820 16E1 cable open-end, 3M
N000082L025A	PTP 820 16T1 cable MDR68-RJ45 3M,LA,cross
N000082L026A	PTP 820 16T1 cable open-end, 3M
N000082L063A	PTP 820C, Cable, SFP, 4x4MIMO_DATA_SHARING_KIT_10M
N000082L138A	PTP 820C, Cable, SFP, 4x4MIMO_DATA_SHARING_KIT_20M
C000082L153A	PTP 820G Fast Ethernet Protection Y-cable, 1.34m, Cat5E
C000082L154A	PTP 820G TDM Protection Y cable, 0.6m, 120 ohm
N000082L202A	PTP 850E Clock sharing Cable for XPIC
N000082L201A	PTP 850E Extension Cable for protection and XPIC
C000082L155A	PTP820G Splitter cable for protection and management, 1.34m, CAT5E
N000081L008A	IF cable for PTP810 MMU and IRFU
N000082L159A	IF cable for PTP820G IDU and RFU-A
N000082L212A	Optical Cable, Dual LC to LC/LC Split, 5.3M, SM, 3 x M28 Gland, outdoor

### Glands

Name	Description
C000000L123A	Cable Gland for 6-9mm cable, M25, Qty 10
C000000L124A	Cable Gland, Long, M25, Qty 5
C000000L176A	Cable Gland for 4-6mm cable, M25, Qty 10
N000000L135A	IP67 doors and glands for 450b High Gain, 4-pack
N000000L140A	Silver RJ-45 Gland Spare - PG16 Long size - pack of 5
N000065L033A	Silver RJ-45 Gland Spare - PG16 size - pack of 10
N000070L010A	Black RJ-45 Gland Spare - PG16 size - pack of 10
N000082L014A	PTP 820 Glands_x5_Kit
N000085L001A	PTP 850 M28 Glands extender
WB1811B	PTP SER EMC Cable Gland (Grounding) Qty. 10

## Cable Selection Guide

### Grounding

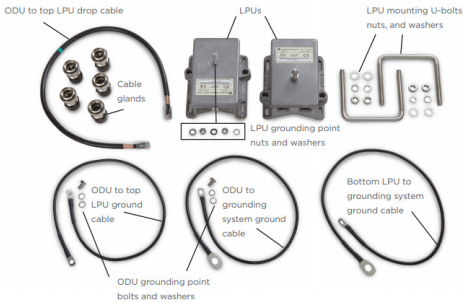
<b>N000082L173A</b>	<b>Grounding Kit for CAT5E F/UTP 8mm and Cat6A Cable</b>
<b>C000000L138A</b>	Grounding Cable, 0.6m with M6 ring to M6 ring
<b>01010419001</b>	Coaxial Cable Grounding Kits for 1/4" and 3/8" Cable
<b>1010419001</b>	Coaxial Cable Grounding Kits for 1/4" and 3/8" Cable
<b>N000082L116B</b>	Grounding Cable, 1m with M6 ring to M6 ring
<b>WB3616H</b>	Coaxial Cable Installation Assembly Kit (W/O LPU End Kit)

### Connector

<b>Name</b>	<b>Description</b>	<b>Type</b>
<b>N000082L174B</b>	RJ45 Connector for CAT6A Cable, Qty 10	RJ 45
<b>N000081L005A</b>	TNC Male for CNT-400 braided cable	TNC Male
<b>N000081L006A</b>	TNC Male Right Angle for CNT-400 braided cable	TNC Male
<b>01010589001</b>	RF Connector, N, Male, Right Angle for CNT-400 Cable	N-Type Male
<b>1010589001</b>	RF Connector, N, Male, Right Angle for CNT-400 Cable	N-Type Male
<b>09010091001</b>	RF Connector, N, Male, Straight for CNT-400 Cable	N-Type Male
<b>9010091001</b>	RF Connector, N, Male, Straight for CNT-400 Cable	N-Type Male

# Lightning Protection Unit (LPU) Guide

## DC Power over Ethernet (PoE)



### C000065L007B

LPU and Grounding Kit (1 kit per ODU)

Volts: 56V  
 Type: DC Power over Ethernet (PoE)  
 Env Protection: IP66/IP67  
 Transfer Rate: 1000 Mbps  
 Connectors: Two x RJ-45  
 Protection Mode: Line-to-ground

Surge Rating: 172A, 10/1000us(L-G)  
 230A, 5/320us (EN61000-4-5)  
 Mounting: Pole mount 1-3" (25-75 mm) or wall mount  
 Operating Temperature: -40°C to +60°C  
 Grounding Accessories: Included



### C000000L033A

Gigabit Surge Suppressor (56V), 10/100/1000 BaseT

Volts: 56V  
 Type: DC Power over Ethernet (PoE)  
 Env Protection: IP54  
 Transfer Rate: 1000 Mbps  
 Connectors: Two x RJ-45  
 Protection Mode: Line-to-ground

Surge Rating: 172A, 10/1000us(L-G)  
 230A, 5/320us (EN61000-4-5)  
 Mounting: Pole mount or wall mount  
 Operating Temperature: -40°C to +60°C  
 Grounding Accessories: M5-Termination ring included, C000000L138A (not included)



### C000000L065A

Gigabit Surge Suppressor (30V)

Volts: 30V  
 Type: DC Power over Ethernet (PoE)  
 Env Protection: IP54  
 Transfer Rate: 1000 Mbps  
 Connectors: Two x RJ-45  
 Protection Mode: Line-to-ground

Surge Rating: 216A 10/1000us  
 Mounting: Pole mount or wall mount  
 Operating Temperature: -40°C to +60°C  
 Grounding Accessories: M5-Termination ring included, C000000L138A (not included)



### 600SSH

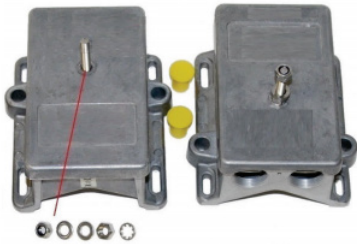
Surge Suppressor

Volts: 30V  
 Type: DC PoE  
 Env Protection: IP54  
 Transfer Rate: 10/100 Mbps  
 Connectors: Two x RJ-45  
 Protection Mode: Line-to-ground

Surge Rating: 200A common mode (EN61000-4-5)  
 Mounting: Pole mount or wall mount  
 Operating Temperature: -40°C to +60°C  
 Grounding Accessories: C000000L138A (not included)

## LPU Selection Guide

### DC Power LPUs



#### **C000000L114A**

DC Surge Suppressor (DC LPU kit) with 2x 4-pin power connectors

Volts: 56V

Type: DC Power

Env Protection: IP66/IP67

Transfer Rate: N/A

Connectors: Molex DC

Protection Mode: Line-to-ground

Surge Rating: 172A, 10/1000us(L-G) 230A, 5/320us (EN61000-4-5)

Mounting: Pole mount 1-3" (25-75 mm) or wall mount

Operating Temperature: -40°C to +60°C

Grounding Accessories: Included



#### **WB3657A**

LPU End Kit PTP 800/820

Volts: 56V

Type: DC Power

Env Protection: IP67

Transfer Rate: N/A

Connectors: Two x N Female

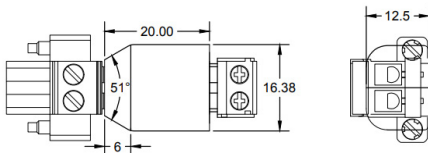
Protection Mode: Line-to-ground

Surge Rating: 20kA 8/20us (EN61000-4-5)

Mounting: Pole mount

Operating Temperature: -40°C to +60°C

Grounding Accessories: C000000L138A (not included)



#### **N000082L185A**

PTP 820 DC surge suppressor

Volts: 56V

Type: DC Power

Env Protection: IP54

Transfer Rate: N/A

Connectors: Screw Terminals

Protection Mode: Line-to-line

Surge Rating: 144.9A 10/1000us

Mounting: Mounts to Radio

Operating Temperature: -40°C to +60°C

Grounding Accessories: N/A



#### **N000082D012A**

PTP 820 Gas Tube Surge Arrestor End Kit

Volts: 56V

Type: DC Power

Env Protection: IP67

Transfer Rate: N/A

Connectors: Two x N Female

Protection Mode: Line-to-line and line-to-ground

Surge Rating: 20kA 8/20 us

Mounting: Pole mount or wall mount

Operating Temperature: -30°C to 70°C

Grounding Accessories: N/A

## LPU Selection Guide

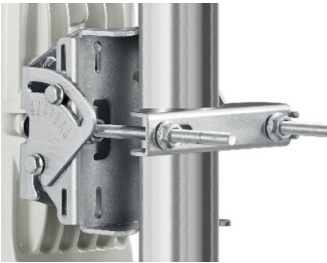
### LPU

	<b>C000065L007B</b>	<b>C000000L033A</b>	<b>C000000L065A</b>	<b>600SSH</b>	<b>C000000L114A</b>	<b>WB3657A</b>	<b>N000082L185A</b>	<b>N000082D012A</b>
<b>Volts</b>	56V	56V	30V	30V	56V	56V	56V	56V
<b>Type</b>	DC PoE	DC PoE	DC PoE	DC PoE	DC Power	DC Power	5DC Power	5DC Power
<b>Env Protection</b>	IP66/IP67	IP54	IP54	IP54	IP66/IP67	IP67	IP54	IP67
<b>Transfer Rate</b>	1000 Mbps	1000 Mbps	1000 Mbps	10/100 Mbps	N/A	N/A	N/A	N/A
<b>Connectors</b>	Two x RJ-45	Two x RJ-45	Two x RJ-45	Two x RJ-45	Molex DC	Two x N Female	Screw Terminals	Two x N Female
<b>Protection Mode</b>	Line-to-line and line-to-ground						Line-to-line	
<b>Surge Rating</b>	172A, 10/1000us(L-G)   230A, 5/320us (EN61000-4-5)	172A, 10/1000us(L-G)   230A, 5/320us (EN61000-4-5)	216A 10/1000us	200A common mode (EN61000-4-5)	172A, 10/1000us(L-G)   230A, 5/320us (EN61000-4-5)	20kA 8/20us (EN61000-4-5)	144.9A 10/1000us	L20kA 8/20 us
<b>Mounting</b>	Pole mount 1-3" (25-75 mm) or wall mount	Pole mount or wall mount	Pole mount or wall mount	Pole mount or wall mount	Pole mount 1-3" (25-75 mm) or wall mount	Pole mount	Radio mount	Pole mount or wall mount
<b>Operating Temperature</b>	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-30°C to 70°C
<b>Grounding Accessories</b>	Included	M5-Termination ring included, C000000L138A	M5-Termination ring included, C000000L138A	C000000L138A	Included	C000000L138A	N/A	N/A

# Mounting Bracket Guide

## Mounting Bracket Selection Guide

### Mounting Bracket



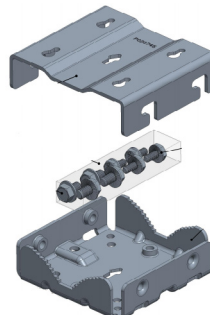
**N000045L002A**  
Tilt Bracket Assembly



**C000000L139**  
Telescope Mounting Kit



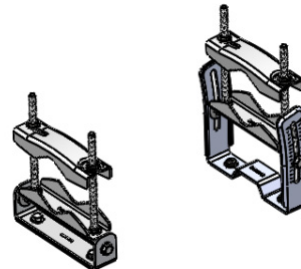
**N000065L042A**  
Large Diameter Extension  
Kit for Standard Integrated  
Bracket



**C000000L136A**  
Universal Wall Mount



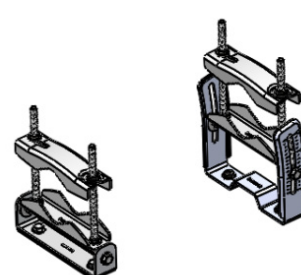
**N000065L031A**  
Mounting Bracket  
(integrated)



**C000045L100A**  
5 GHz 450m AP Mounting  
Bracket Kit (A005279)



**N000900L022A**  
Adjustable Pole Bracket



**C000045L101A**  
3 GHz 450m AP Mounting  
Bracket Kit (A005466)

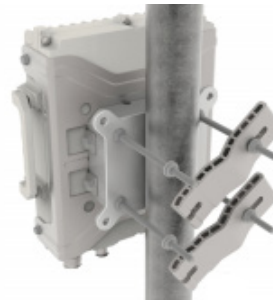


## Mounting Bracket Selection Guide

### Mounting Bracket



**N000900L060A**  
ePMP 3000 Pole and Wall  
Mount Bracket



**N000000L128A**  
cnRanger Palisade RRH  
Mounting Kit

Product	Mounting Bracket
PTP 550	N000045L002A
PTP 550E	N000045L002A
PTP 670	N000045L002A
PTP 48700	N000045L002A,N000065L042A,N000065L031A
PTP 78700	N000045L002A
60GHz cnWave V1000	N000900L022A
60GHz cnWave V3000	N000900L022A, C000000L139
60GHz cnWave V5000	C000000L136A,N000045L002A
PMP 450i Connectorized	N000045L002A,N000065L042A,N000065L031A
PMP 450i Integrated AP	C000045L005A
PMP 450i Integrated SM	N000045L002A,N000065L042A,N000065L031A
5Ghz PMP 450m	C000045L100A
3Ghz PMP 450m	C000045L101A
ePMP 3000	N000900L060A
ePMP Force 180	N000900L022A
ePMP Force 300-16	N000900L022A
3GHz cnRanger RRH	N000000L128A
2GHz cnRanger RRH	N000000L128A

### 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.