



# PTP 820/850 ACCESSORIES GUIDE

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## ANTENNA

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# Microwave Antenna Guide

## Microwave



### N060082D150A

PTP 820 2' ANT,SP,6GHz,RFU-C  
TYPE&UDR70 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 5.725 7.125 GHz  
Gain: 30.8 dBi  
Polarity: Single  
Connector: UDR70  
Shipping: NA & CALA Only



### N060082D151A

PTP 820 3' ANT,SP,6GHz,RFU-C  
TYPE&UDR70 - Radiowave  
Dish Size: 0.9 m (3 ft)  
Frequency: 5.725 7.125 GHz  
Gain: 34.3 dBi  
Polarity: Single  
Connector: UDR70  
Shipping: NA & CALA Only



### N060082D128A

PTP 820 3' ANT,SP,6GHz,RFU-C  
TYPE&Std UDR70 - Andrew  
Dish Size: .9 m (3 ft)  
Frequency: 5.925 – 7.125 GHz  
Gain: 34.0 dBi  
Polarity: Single  
Connector: UDR70  
Shipping: Global



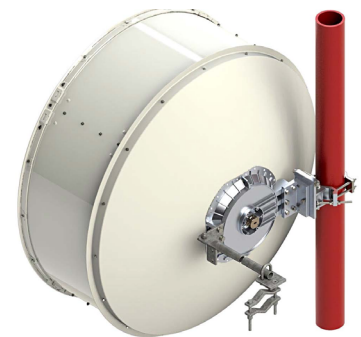
### N060082D152A

PTP 820 4' ANT,SP,6GHz,RFU-C  
TYPE&UDR70 - Radiowave  
Dish Size: 1.2 m (4 ft)  
Frequency: 5.725 7.125 GHz  
Gain: 37.2 dBi  
Polarity: Single  
Connector: UDR70  
Shipping: NA & CALA Only



### N060082D129A

PTP 820 4' ANT,SP,6GHz,RFU-C  
TYPE&Std UDR70 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 5.925 – 7.125 GHz  
Gain: 36.0 dBi  
Polarity: Single  
Connector: UDR70  
Shipping: Global



### N060080L001B

SHPX4 - 4' ANT, 6W GHz with  
Radome, Dual Pol, CPR137G  
Dish Size: 1.2 m (4 ft)  
Frequency: 5.925 – 7.125 GHz  
Gain: 36.2 dBi  
Polarity: Dual  
Connector: CPR137G  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



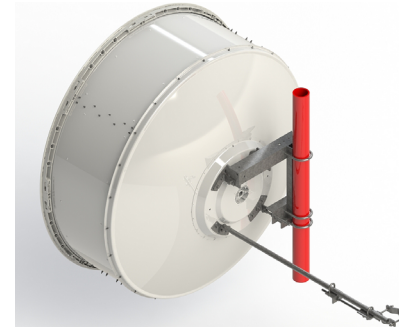
#### **N060082D163A**

USX6 - 6' ANT, 6W GHz with Radome, Dual Pol, CPR137G  
Dish Size: 1.8 m (6 ft)  
Frequency: 5.925 – 7.125 GHz  
Gain: 39.3 dBi  
Polarity: Dual  
Connector: CPR137G  
Shipping: Global



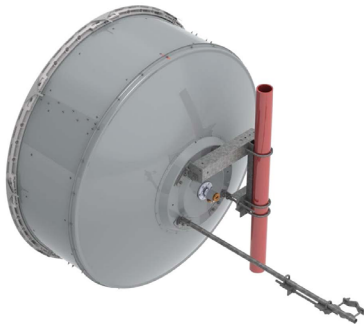
#### **N060082D153A**

PTP 820 6' ANT,SP,6GHz,RFU-C  
TYPE&UDR70 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 5.725 7.125 GHz  
Gain: 39.8 dBi  
Polarity: Single  
Connector: UDR70  
Shipping: NA & CALA Only



#### **N060082D132A**

PTP 820 6' ANT,SP,6GHz,RFU-C  
TYPE&Std UDR70 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 5.925 – 7.125 GHz  
Gain: 39.8 dBi  
Polarity: Single  
Connector: UDR70  
Shipping: Global



#### **N060080L006B**

HX6 - 6' ANT, 6W GHz with radome, Dual Pol, CPR137G  
Dish Size: 1.8 m (6 ft)  
Frequency: 5.925 – 7.125 GHz  
Gain: 39.9 dBi  
Polarity: Dual  
Connector: CPR137G  
Shipping: Global



#### **N070082D306A**

PTP 820 2' ANT,SP,7\_8GHz,RFU-C  
TYPE&UBR84 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 7.125 8.5 GHz  
Gain: 31.6 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: NA & CALA Only



#### **N070082D284A**

PTP 820 2' ANT,SP,7\_8GHz,RFU-C  
TYPE&Std UBR84 - Andrew  
Dish Size: 10.6 m (2 ft)  
Frequency: 7.1 – 8.5 GHz  
Gain: 32.2 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



#### **N070082D307A**

PTP 820 3' ANT,SP,7\_8GHz,RFU-C  
TYPE&UBR84 - Radiowave  
Dish Size: 0.9 m (3 ft)  
Frequency: 7.125 - 8.5 GHz  
Gain: 35.1 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: NA & CALA Only



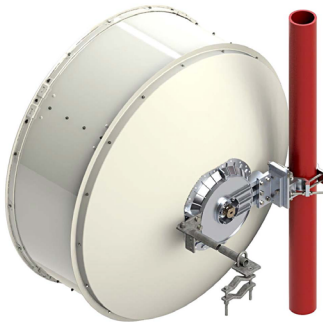
#### **N070082D285A**

PTP 820 3' ANT,SP,7\_8GHz,RFU-C  
TYPE&Std UBR84 - Andrew  
Dish Size: 0.9 m (3 ft)  
Frequency: 7.1 - 8.5 GHz  
Gain: 35.8 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: Global



#### **N070082D308A**

PTP 820 4' ANT,SP,7\_8GHz,RFU-C  
TYPE&UBR84 - Radiowave  
Dish Size: 1.2 m (4 ft)  
Frequency: 7.125 - 8.5 GHz  
Gain: 37.2 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: NA & CALA Only



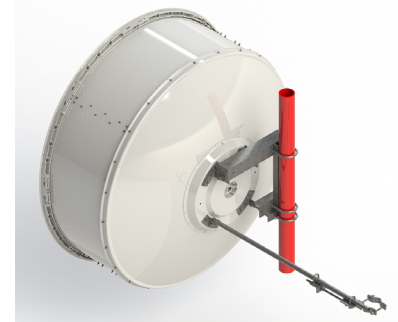
#### **N070082D286A**

PTP 820 4' ANT,SP,7\_8GHz,RFU-C  
TYPE&Std UBR84 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 7.125 - 8.5 GHz  
Gain: 37.7 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: Global



#### **N070082D309A**

PTP 820 6' ANT,SP,7\_8GHz,RFU-C  
TYPE&UBR84 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 7.125 - 8.5 GHz  
Gain: 40.7 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: NA & CALA Only



#### **N070082D288A**

PTP 820 6' ANT,SP,7\_8GHz,RFU-C  
TYPE&Std UBR84 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 7.125 - 8.5 GHz  
Gain: 41.1 dBi  
Polarity: Single  
Connector: UBR84  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



#### N110082D096A

PTP 820 2' ANT,SP,11GHz,RFU-C  
TYPE&UBR100 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 10.7 11.7 GHz  
Gain: 34.8 dBi  
Polarity: Single  
Connector: UBR100  
Shipping: NA & CALA Only



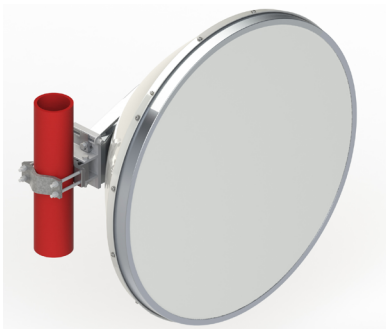
#### N110082D072A

PTP 820 2' ANT,SP,10\_11GHz,RFU-C  
TYPE&Std UBR100 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 10.125 – 11.7 GHz  
Gain: 35.2 dBi  
Polarity: Single  
Connector: UBR100  
Shipping: Global



#### N110082D098A

PTP 820 3' ANT,SP,11GHz,RFU-C  
TYPE&UBR100 - Radiowave  
Dish Size: 0.9 m (3 ft)  
Frequency: 10.7 11.7 GHz  
Gain: 39 dBi  
Polarity: Single  
Connector: UBR100  
Shipping: NA & CALA Only



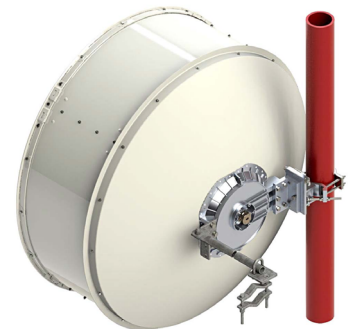
#### N110082D073A

PTP 820 3' ANT,SP,11GHz,RFU-C  
TYPE&Std UBR100 - Andrew  
Dish Size: 0.9 m (3 ft)  
Frequency: 10.125 – 11.7 GHz  
Gain: 39 dBi  
Polarity: Single  
Connector: UBR100  
Shipping: Global



#### N110082D100A

PTP 820 4' ANT,SP,11GHz,RFU-C  
TYPE&UBR100 - Radiowave  
Dish Size: 1.2 m (4 ft)  
Frequency: 10.7 11.7 GHz  
Gain: 41.4 dBi  
Polarity: Single  
Connector: UBR100  
Shipping: NA & CALA Only



#### N110082D075A

PTP 820 4' ANT,SP,11GHz,RFU-C  
TYPE&Std UBR100 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 10.125 – 11.7 GHz  
Gain: 41 dBi  
Polarity: Single  
Connector: UBR100  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



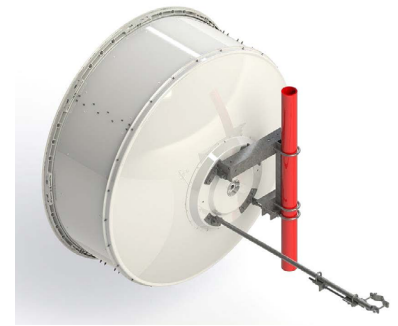
#### **C100082D049B**

SHPX4 - 4' ANT, 10\_11GHz  
with Radome, Dual Pol, CPR90G  
Dish Size: 1.2 m (4 ft)  
Frequency: 10 - 11.7 GHz  
Gain: 41.3 dBi  
Polarity: Dual  
Connector: CPR90G  
Shipping: Global



#### **N110082D102A**

PTP 820 6' ANT,SP,11GHz,RFU-C  
TYPE&UBR100 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 10.7 - 11.7 GHz  
Gain: 43.8 dBi  
Polarity: Single  
Connector: UBR100  
Shipping: NA & CALA Only



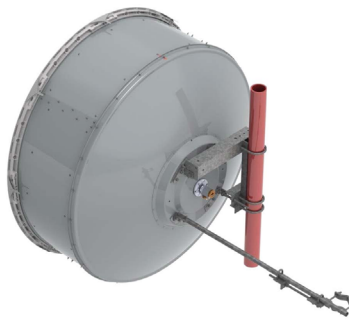
#### **N110082D077A**

PTP 820 6' ANT,SP,10\_11GHz,RFU-C  
TYPE&Std UBR100 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 10 - 11.7 GHz  
Gain: 44.8 dB  
Polarity: Single  
Connector: UBR100  
Shipping: Global



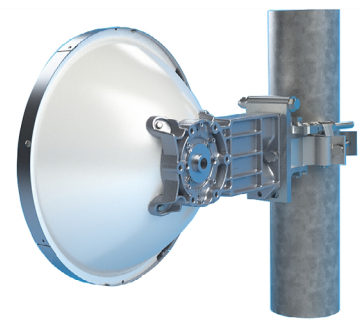
#### **N100082D001A**

USX6 - 6' ANT, 11W GHz  
with Radome, Dual Pol, CPR90G  
Dish Size: 1.8 m (6 ft)  
Frequency: 10 - 11.7 GHz  
Gain: 44.3 dBi  
Polarity: Dual  
Connector: CPR90G  
Shipping: Global



#### **C100082D050B**

HX6 - 6' ANT, 10\_11 GHz  
with Radome, Dual Pol, CPR90G  
Dish Size: 1.8 m (6 ft)  
Frequency: 10 - 11.7 GHz  
Gain: 44.3 dBi  
Polarity: Dual  
Connector: CPR90G  
Shipping: Global



#### **N130082D043A**

PTP 820 1' ANT,SP,13GHz,RFU-C  
TYPE&Std UBR120 - Andrew  
Dish Size: 0.3 m (1ft)  
Frequency: 12.7 - 13.25 GHz  
Gain: 31 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



#### **N130082D063A**

PTP 820 1' ANT,SP,13GHz,RFU-C  
TYPE&UBR120 - Radiowave  
Dish Size: 0.3 m (1 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 29.7 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: NA & CALA Only



#### **N130082D045A**

PTP 820 2' ANT,SP,13GHz,RFU-C  
TYPE&Std UBR120 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 36.2 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: Global



#### **N130082D064A**

PTP 820 2' ANT,SP,13GHz,RFU-C  
TYPE&UBR120 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 36.1 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: NA & CALA Only



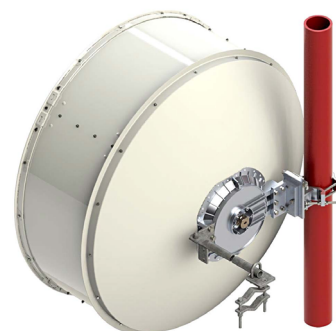
#### **N130082D047A**

PTP 820 3' ANT,SP,13GHz,RFU-C  
TYPE&Std UBR120 - Andrew  
Dish Size: 0.9 m (3 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 40.1 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: Global



#### **N130082D065A**

PTP 820 3' ANT,SP,13GHz,RFU-C  
TYPE&UBR120 - Radiowave  
Dish Size: 0.9 m (3 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 38.9 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: NA & CALA Only



#### **N130082D048A**

PTP 820 4' ANT,SP,13GHz,RFU-C  
TYPE&Std UBR120 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 42.1 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: Global

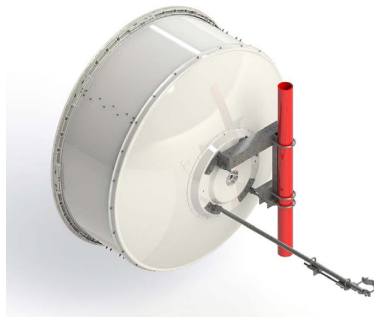
## Microwave Antenna Selection Guide

### Microwave



#### N130082D066A

PTP 820 4' ANT,SP,13GHz,RFU-C  
TYPE&UBR120 - Radiowave  
Dish Size: 0.12 m (4 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 42 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: NA & CALA Only



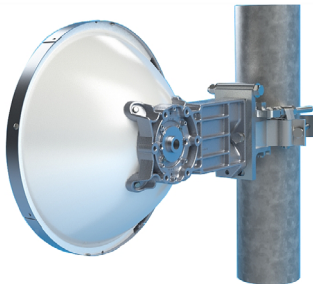
#### N130082D050A

PTP 820 6' ANT,SP,13GHz,RFU-C  
TYPE&Std UBR120 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 45.2 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: Global



#### N130082D067A

PTP 820 6' ANT,SP,13GHz,RFU-C  
TYPE&UBR120 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 12.7 – 13.25 GHz  
Gain: 44.6 dBi  
Polarity: Single  
Connector: UBR120  
Shipping: NA & CALA Only



#### N150082D065A

PTP 820 1' ANT,SP,15GHz,RFU-C  
TYPE&Std UBR140 - Andrew  
Dish Size: 0.3 m (1 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 32.6 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: Global



#### N150082D085A

PTP 820 1' ANT,SP,15GHz,RFU-C  
TYPE&UBR140 - Radiowave  
Dish Size: 0.3 m (1 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 31.3 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: NA & CALA Only



#### N150082D086A

PTP 820 2' ANT,SP,15GHz,RFU-C  
TYPE&UBR140 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 37.3 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: NA & CALA Only

## Microwave Antenna Selection Guide

### Microwave



#### **N150082D067A**

PTP 820 2' ANT,SP,15GHz,RFU-C  
TYPE&Std UBR140 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 14.4 - 15.35 GHz  
Gain: 37.2 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: Global



#### **N150082D087A**

PTP 820 3' ANT,SP,15GHz,RFU-C  
TYPE&UBR140 - Radiowave  
Dish Size: 0.9 m (3 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 40.2 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: NA & CALA Only



#### **N150082D069A**

PTP 820 3' ANT,SP,15GHz,RFU-C  
TYPE&Std UBR140 - Andrew  
Dish Size: 0.9 m (3 ft)  
Frequency: 14.4 - 15.35 GHz  
Gain: 41.4 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: Global



#### **N150082D088A**

PTP 820 4' ANT,SP,15GHz,RFU-C  
TYPE&UBR140 - Radiowave  
Dish Size: 1.2 m (4 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 42.7 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: NA & CALA Only



#### **N150082D070A**

PTP 820 4' ANT,SP,15GHz,RFU-C  
TYPE&Std UBR140 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 43.1 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: Global

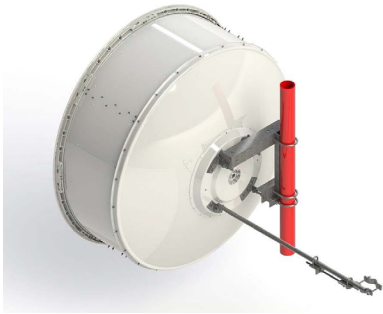


#### **N150082D089A**

PTP 820 6' ANT,SP,15GHz,RFU-C  
TYPE&UBR140 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 46.2 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: NA & CALA Only

## Microwave Antenna Selection Guide

### Microwave



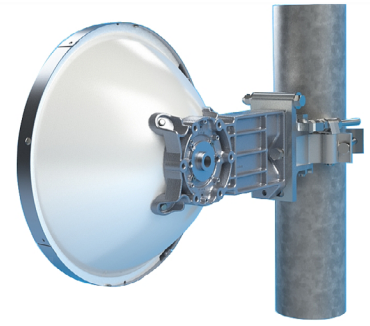
#### **N150082D072A**

PTP 820 6' ANT,SP,15GHz,RFU-C  
TYPE&Std UBR140 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 14.25 - 15.35 GHz  
Gain: 46.5 dBi  
Polarity: Single  
Connector: UBR140  
Shipping: Global



#### **N180082D051A**

PTP 820 1' ANT,SP,18GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.3 m (1 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 34.4 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N180082D031A**

PTP 820 1' ANT,SP,18GHz,RFU-C  
TYPE&Std UBR220 – Andrew  
Dish Size: 0.3 m (1 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 34.5 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N180082D052A**

PTP 820 2' ANT,SP,18GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 39 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N180082D033A**

PTP 820 2' ANT,SP,18GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 39.1 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global

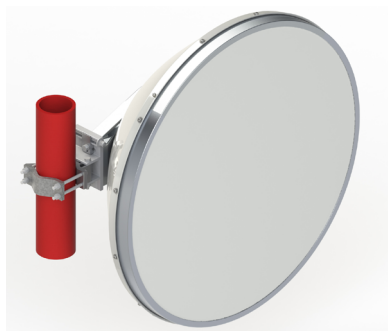


#### **N180082D053A**

PTP 820 3' ANT,SP,18GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.9 m (3 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 43.7 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only

## Microwave Antenna Selection Guide

### Microwave



#### **N180082D035A**

PTP 820 3' ANT,SP,18GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.9 m (3 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 43.7 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N180082D054A**

PTP 820 4' ANT,SP,18GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 1.2 m (4 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 44.9 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N180082D036A**

PTP 820 4' ANT,SP,18GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 45.1 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N180082D055A**

PTP 820 6' ANT,SP,18GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 48.5 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N180082D038A**

PTP 820 6' ANT,SP,18GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 17.7 19.7 GHz  
Gain: 48.4 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global

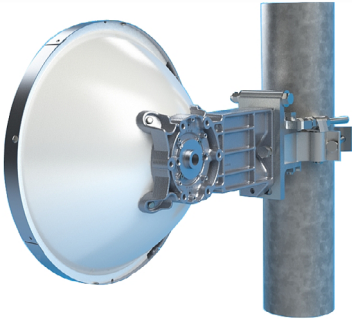


#### **N230082D041A**

PTP 820 1' ANT,SP,23GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.3 m (1 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 35.5 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only

## Microwave Antenna Selection Guide

### Microwave



#### **N230082D021A**

PTP 820 1' ANT,SP,23GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.3 m (1 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 35.9 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N230082D042A**

PTP 820 2' ANT,SP,23GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 40.7 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



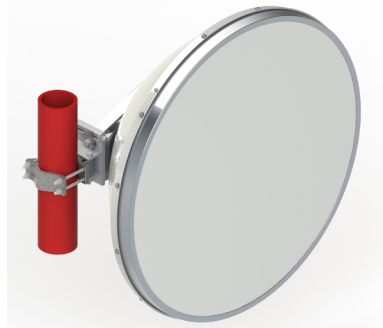
#### **N230082D023A**

PTP 820 2' ANT,SP,23GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 41.0 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N230082D043A**

PTP 820 3' ANT,SP,23GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 10.9 m (3 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 44.2 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N230082D025A**

PTP 820 3' ANT,SP,23GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.9 m (3 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 45.0 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global

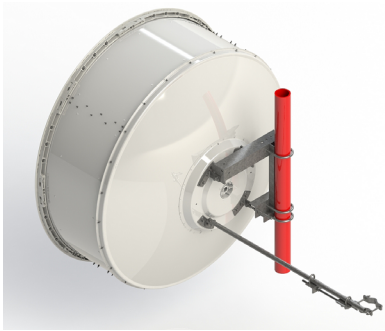


#### **N230082D026A**

PTP 820 4' ANT,SP,23GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 47.0 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



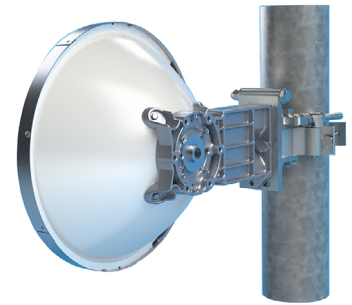
#### **N230082D028A**

PTP 820 6' ANT,SP,23GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 49.9 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N230082D045A**

PTP 820 6' ANT,SP,23GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 21.2 23.6 GHz  
Gain: 49.4 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N260082D017A**

PTP 820 1' ANT,SP,26GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.3 m (1 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 37.1 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N260082D034A**

PTP 820 1' ANT,SP,26GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.3 m (1 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 36.5 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N260082D019A**

PTP 820 2' ANT,SP,26GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 42.5 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N260082D035A**

PTP 820 2' ANT,SP,26GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 41.5 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only

## Microwave Antenna Selection Guide

### Microwave



#### **N260082D021A**

PTP 820 3' ANT,SP,26GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 46.2 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N260082D036A**

PTP 820 3' ANT,SP,26GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 0.9 m (3 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 45 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



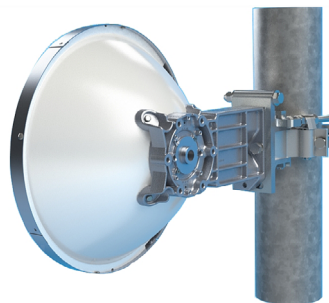
#### **N260082D022A**

PTP 820 4' ANT,SP,26GHz,RFU-C  
TYPE&Std UBR220 - Andrew  
Dish Size: 1.2 m (4 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 47.8 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: NA & CALA Only



#### **N260082D037A**

PTP 820 4' ANT,SP,26GHz,RFU-C  
TYPE&UBR220 - Radiowave  
Dish Size: 1.8 m (6 ft)  
Frequency: 24.25 - 26.5 GHz  
Gain: 47.2 dBi  
Polarity: Single  
Connector: UBR220  
Shipping: Global



#### **N280082D029A**

PTP 820 1' ANT,SP,28GHz,RFU-C  
TYPE&Std UBR320 - Andrew  
Dish Size: 0.3 m (1 ft)  
Frequency: 27.5 - 29.5 GHz  
Gain: 38.6 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: Global



#### **N280082D044A**

PTP 820 1' ANT,SP,28GHz,RFU-C  
TYPE&UBR320 - Radiowave  
Dish Size: 0.3 m (1 ft)  
Frequency: 27.3 - 31.3 GHz  
Gain: 37 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: NA & CALA Only

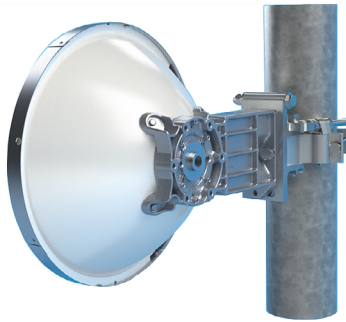
## Microwave Antenna Selection Guide

### Microwave



#### **N280082D031A**

PTP 820 2' ANT,SP,28GHz,RFU-C  
TYPE&Std UBR320 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 27.5 - 29.5 GHz  
Gain: 43.2 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: Global



#### **N320082D013A**

PTP 820 1' ANT,SP,32GHz,RFU-C  
TYPE&Std UBR320 - Andrew  
Dish Size: 0.3 m (1 ft)  
Frequency: 31.8 - 33.4 GHz  
Gain: 39.1 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: Global



#### **N320082D027A**

PTP 820 1' ANT,SP,32GHz,RFU-C  
TYPE&UBR320 - Radiowave  
Dish Size: 0.3 m (1 ft)  
Frequency: 31.3 - 33.4 GHz  
Gain: 38.1 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: NA & CALA Only



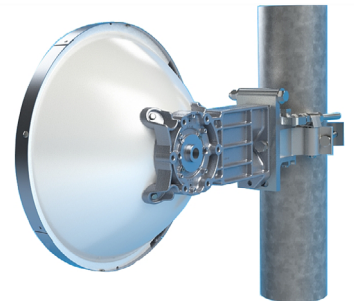
#### **N320082D015A**

PTP 820 2' ANT,SP,32GHz,RFU-C  
TYPE&Std UBR320 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 31.0 - 33.4 GHz  
Gain: 44 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: Global



#### **N320082D028A**

PTP 820 2' ANT,SP,32GHz,RFU-C  
TYPE&UBR320 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 31.3 - 33.4 GHz  
Gain: 43.1 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: NA & CALA Only



#### **N380082D037A**

PTP 820 1' ANT,SP,38GHz,RFU-C  
TYPE&Std UBR320 - Andrew  
Dish Size: 0.3 m (1 ft)  
Frequency: 37.0 - 40.0 GHz  
Gain: 40.5 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



#### **N380082D052A**

PTP 820 1' ANT,SP,38GHz,RFU-C  
TYPE&UBR320 - Radiowave  
Dish Size: 0.6 m (2 ft)  
Frequency: 37.0 - 40.0 GHz  
Gain: 39.7 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: NA & CALA Only



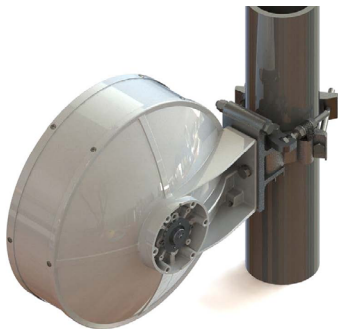
#### **N380082D039A**

PTP 820 2' ANT,SP,38GHz,RFU-C  
TYPE&Std UBR320 - Andrew  
Dish Size: 0.9 m (3 ft)  
Frequency: 37.0 - 40.0 GHz  
Gain: 45.8 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: Global



#### **N380082D053A**

PTP 820 2' ANT,SP,38GHz,RFU-C  
TYPE&UBR320 - Radiowave  
Dish Size: 1.2 m (4 ft)  
Frequency: 37.0 - 40.0 GHz  
Gain: 44.7 dBi  
Polarity: Single  
Connector: UBR320  
Shipping: NA & CALA Only



#### **N800082D005A**

PTP 820 1' ANT,SP,80GHz, RFU-E  
TYPE & UG387 - Andrew  
Dish Size: 1.8 m (6 ft)  
Frequency: 71.0 - 86.0 GHz  
Gain: 47.0 dBi  
Polarity: Single  
Connector: UG387  
Shipping: Global



#### **N800082D009A**

PTP 820 2' ANT,SP,80GHz, RFU-E  
TYPE & UG387 - Andrew  
Dish Size: 0.6 m (2 ft)  
Frequency: 71.0 - 86.0 GHz  
Gain: 51.5 dBi  
Polarity: Single  
Connector: UG387  
Shipping: Global



#### **N800082D010A**

PTP 820 2' ANT,DP,18 & 80 GHz  
multi-band  
Dish Size: 0.6 m (2 ft)  
Frequency: 17.7 – 19.7 GHz,  
71 – 76 GHz, 81 – 86 GHz  
Gain: 50 – 51 dBi  
Polarity: Dual  
Connector: CIRC/WR12  
Shipping: Global

## Microwave Antenna Selection Guide

### Microwave



#### **N800082D006A**

PTP 820 2' ANT,SP,18 & 80 GHz  
multi-band

Dish Size: 0.6 m (2 ft)

Frequency: 17.7 – 19.7 GHz,  
71 – 76 GHz, 81 – 86 GHz

Gain: 49 – 50 dBi

Polarity: Single

Connector: UBR220/WR12

Shipping: Global



#### **N800082D011A**

PTP 820 2' ANT,DP,23 & 80 GHz  
multi-band

Dish Size: 0.6 m (2 ft)

Frequency: 21.2 – 23.6 GHz,  
71 – 76, 81- 86 GHz

Gain: 50 – 51 dBi

Polarity: Dual

Connector: CIRC/WR12

Shipping: Global



#### **N800082D007A**

PTP 820 2' ANT,SP,23 & 80 GHz  
multi-band

Dish Size: 0.6 m (2 ft)

Frequency: 21.2 – 23.6 GHz,  
71 – 76, 81- 86 GHz

Gain: 49 – 50 dBi

Polarity: Single

Connector: UBR220/WR12

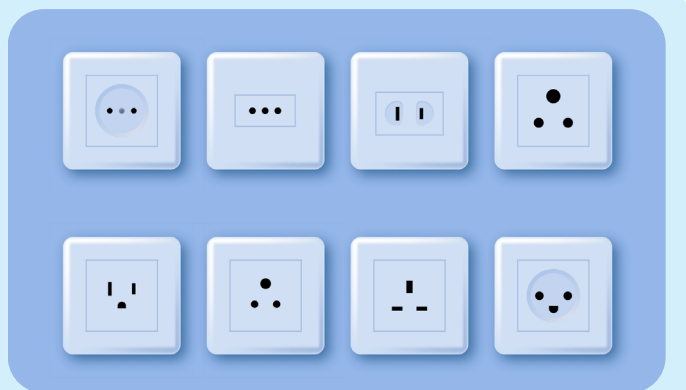
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# Power Accessories

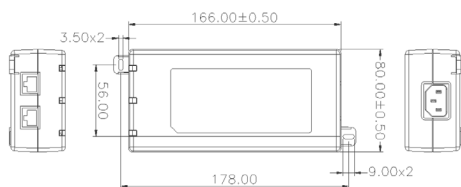
## Power Supplies

### QUICK LOOK:

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



### Power Supply



#### N000082L164A

PTP 820C INDOOR AC POE INJECTOR, 90W

Input connectors: C14

Output connectors: RJ45

Input power: AC

Output power: DC

Watt: 90W

Volts: 56V

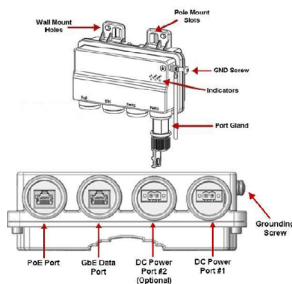
Op efficiency: Level 6

Indoor/ OD: Indoor

Temp: (-10°C to 40°C)

IP Rating: X

Ethernet speed: 1G



#### N000082L022A

PTP 820 PoE Injector all outdoor, redundant DC input, +24VDC support

Input Connector: Direct Wire

Output connectors: RJ45

Input power: DC

Output power: DC

Watt: 90W

Volts: 56V

Op efficiency: Level 6

Indoor/ OD: Outdoor

Temp: -45°C to +60°C

IP Rating: IP66

Ethernet speed: 1G



#### C000065L002D

AC+DC Enhanced Power Injector 58V

Input Connector: DCin screw terminals /2-wire AC inlet; IEC60320 C8

Output connectors: RJ45 / DCout screw terminals

Input power: AC + DC

Output power: DC

Watt: 100W

Volts: 58V

Op efficiency: Level 6

Indoor/ OD: ID/ OD

Temp: (-40°C to +50°C)

IP Rating: IP20

Ethernet speed: 1G

# SFP Guide

## SFP Module Selection Guide

### PTP 8xx SFPs



#### **N000082L213A**

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

Speed: 1 G

Mode: Single

Wavelength: 1490nm TX & 1310 RX

Spare Glands: N000082L014A

Product Support: PTP 820

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



#### **N000082L214A**

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

Speed: 1 G

Mode: Single

Wavelength: 1310nm TX & 1490 RX

Spare Glands: N000082L014A

Product Support: PTP 820

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

Spare Glands: N000082L014A

Product Support: PTP 820

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

Spare Glands: N000082L014A

Product Support: PTP 820

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

## SFP Module Selection Guide

### PTP 8xx SFPs



#### **N800082L012A**

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

Speed: 10 G

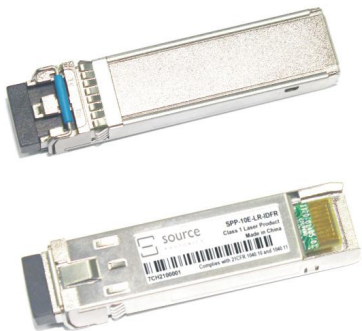
Mode: Multi

Wavelength: 850nm

Spare Glands: N000082L014A

Product Support: PTP 820

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



#### **N800082L013A**

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

Speed: 10 G

Mode: Single

Wavelength: 1310nm

Spare Glands: N000082L014A

Product Support: PTP 820 / PTP 850

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

# Cable Guide

## Cable Selection Guide

### RJ45

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

### Coaxial

| Name               | Description                              | Length (meters) |
|--------------------|------------------------------------------|-----------------|
| <b>30010194001</b> | 50 Ohm Braided Coaxial Cable - 75 meter  | 75              |
| <b>30010195001</b> | 50 Ohm Braided Coaxial Cable - 500 meter | 500             |

### DC Cable

| Name                | Description                                                  | Length (meters) |
|---------------------|--------------------------------------------------------------|-----------------|
| <b>N000082L181A</b> | PTP 820 Outdoor DC Cable, 10AWG, 150m, M28 Gland to Open End | 150             |
| <b>N000082L182A</b> | PTP 820 Outdoor DC Cable, 10AWG, 200m, M28 Gland to Open End | 200             |
| <b>N000082L183A</b> | PTP 820 Outdoor DC Cable, 10AWG, 250m, M28 Gland to Open End | 250             |
| <b>N000082L184A</b> | PTP 820 Outdoor DC Cable, 10AWG, 300m, M28 Gland to Open End | 300             |

### Optical

| Name                | Description                                                     | Length (meters) | Mode              |
|---------------------|-----------------------------------------------------------------|-----------------|-------------------|
| <b>N000082L215A</b> | Optical CABLE,MM, 1m                                            | 1               | Multi Mode fiber  |
| <b>N000082L187A</b> | Optical CABLE,SM, 10m                                           | 10              | Single Mode Fiber |
| <b>N000082L192A</b> | Optical CABLE,MM, 10m                                           | 10              | Multi Mode fiber  |
| <b>N000082L139A</b> | Optical CABLE,SM, 30m                                           | 30              | 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>N000082L140A</b> | Optical CABLE,SM, 50m                                           | 50              | 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>N000082L141A</b> | Optical CABLE,SM, 80m                                           | 80              | 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>N000082L142A</b> | Optical CABLE,SM, 100m                                          | 100             | 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>N000082L143A</b> | Optical CABLE,SM, 150m                                          | 150             | 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  |

## Cable Selection Guide

### Miscellaneous

| Name         | Description                                                             |
|--------------|-------------------------------------------------------------------------|
| 7009304001   | Hoisting Grip for CNT-400 cable                                         |
| C000082L153A | PTP 820G Fast Ethernet Protection Y-cable, 1.34m, Cat5E                 |
| C000082L154A | PTP 820G TDM Protection Y cable, 0.6m, 120 ohm                          |
| C000082L155A | PTP820G Splitter cable for protection and management, 1.34m, CAT5E      |
| N000000L127A | CABLE ASSY, SHIELDED, 4C STEREO PLUG -3.5MM TO RJ45                     |
| N000082L146A | PTP 820 Fiber 1+1 Splitter, SM                                          |
| N000082L147A | PTP 820 Fiber Adapter                                                   |
| N000081L008A | IF cable for PTP810 MMU and IRFU                                        |
| 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                                         |
| 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                               |
| N000082L063A | PTP 820C,CABLE,SFP,4x4MIMO_DATA_SHARING_KIT_10M                         |
| N000082L122A | PTP 820G Ethernet split cable for Management                            |
| N000082L136A | PTP 820C/S MIMO or Prot management cable 20m                            |
| N000082L138A | PTP 820C,CABLE,SFP,4x4MIMO_DATA_SHARING_KIT_20M                         |
| N000082L159A | IF cable for PTP820G IDU and RFU-A                                      |
| N000082L201A | PTP 850E Extension Cable for protection and XPIC                        |
| N000082L202A | PTP 850E Clock sharing Cable for XPIC                                   |
| N000082L212A | Optical Cable, Dual LC to LC/LC Split, 5.3M, SM, 3 x M28 Gland, outdoor |
| RDN5785A     | 3 M (9.8 FT) SUPERFLEX RF LOW LOSS JUMPER CABLE                         |

### Glands

| Name         | Description                 |
|--------------|-----------------------------|
| N000082L014A | PTP 820 Glands_x5_KIT       |
| N000085L001A | PTP 850 M28 Glands extender |

### Connector

| Name         | Description                                       | Type        |
|--------------|---------------------------------------------------|-------------|
| 01010589001  | RF CONNECTOR,N,MALE,RIGHT ANGLE FOR CNT-400 CABLE | N-Type Male |
| 09010091001  | RF CONNECTOR,N,MALE,STRAIGHT FOR CNT-400 CABLE    | N-Type Male |
| 1010589001   | RF CONNECTOR,N,MALE,RIGHT ANGLE FOR CNT-400 CABLE | N-Type Male |
| 9010091001   | RF CONNECTOR,N,MALE,STRAIGHT FOR CNT-400 CABLE    | N-Type Male |
| N000081L005A | TNC Male for CNT-400 braided cable                | TNC Male    |
| N000081L006A | TNC Male Right Angle for CNT-400 braided cable    | TNC Male    |
| N000082L174B | RJ45 Connector for CAT6A Cable, Qty 10            | RJ 45       |

# LPU and Grounding Guide

## Lightning Protection Units and Grounding Selection Guide

### Lightning Protection Units



#### **C000000L033A**

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

Volts: 56V

Type: DC PoE

Env Protection: IP54

Transfer Rate: 1000

Connectors: Two x RJ-45

Protection Mode: Line-to-line and 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



#### **WB3657A**

LPU End Kit PTP 800/820

Volts: 56V

Type: DC Power

Env Protection: IP67

Connectors: Two x N-Type Female RF coaxial connector

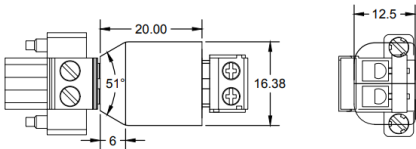
Protection Mode: Line-to-line and line-to-ground

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

Mounting: Pole mount

Operating Temperature: -40°C to +60°C

Grounding Accessories: C000000L138A



#### **N000082L185A**

PTP 820 DC surge suppressor

Volts: 56V

Type: DC Power

Env Protection: IP54

Connectors: Screw Terminals

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

Surge Rating: 144.9A 10/1000us

Mounting: Pole mount or wall mount

Operating Temperature: -40°C to +60°C



#### **N000082D012A**

PTP 820 Gas Tube Surge Arrestor End Kit

Volts: 56V

Type: DC Power

Env Protection: IP67

Connectors: Two x N-Type Female RF coaxial connector

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

## LPU and Grounding Selection Guide

### Grounding

| Name         | Description                                               |
|--------------|-----------------------------------------------------------|
| 1010419001   | Coaxial Cable Grounding Kits for 1/4" and 3/8" Cable      |
| C000000L138A | Grounding Cable, 0.6m with M6 ring to M6 ring             |
| N000082L116B | Grounding Cable, 1m with M6 ring to M6 ring               |
| N000082L173A | Grounding Kit for CAT5E F/UTP 8mm and Cat6A Cable         |
| N000082L173A | Grounding Kit for CAT5E F/UTP 8mm and Cat6A Cable         |
| WB3616H      | Coaxial Cable Installation Assembly Kit (W/O LPU End Kit) |
| 7009343001   | Grounding Kit for waveguide EWP52 and EWP63               |
| 7009343002   | Grounding Kit for waveguide EWP90                         |

### 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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