

# Base Station Antennas



PerforMax™

## ANTENNA SPECIFICATIONS

### ANTENNA TYPE: PCS-XAZ04-0D

Description: 1710-1990 MHz, single polarized, azimuth beamwidth set at 33 degrees, 17 dBd gain panel antenna with 0 degrees of electrical downtilt

### Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990
Gain, dBd (dBi)	16.1 (18.3)	16.7 (18.9)
Azimuth Beamwidth, degrees	37	33
Elevation Beamwidth, degrees	11	10
Front-to-Back Ratio, dB	>38	>38
Return Loss, dB (VSWR)	>14.0 (<1.5)	>14.0 (<1.5)
Impedance, ohms	50	50
Port to Port Isolation, dB	NA	NA
Intermodulation, dBc		<-150
Polarization Type		Single, Vertical
Electrical Downtilt, degrees		0
Maximum Input Power, watts		250
Lightning Protection		DC Ground
Connector Type		7-16 DIN Female
Connector Position		Bottom
Number of Connectors		1

### Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	988 (38.9) x 295 (11.6) x 151 (5.9)
Antenna Weight, kg (lb)	6.3 (13.8)
Radome Color	Gray
Radome Material	UV Protected PVC

### Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	413 (93)
Wind Load - lateral, N (lbf)*	297 (67)
Wind Load - rear, N (lbf)*	496 (111)
Temperature Range, degrees C	-40 to +65
Humidity, %	Up to 100

\* Based on 100 mph (161 km/h)

### Shipping Specifications

Shipping Dimensions - L x W x D, mm (in)	1213 (47.8) x 300 (11.8) x 254 (10)
Shipping Weight, kg (lb)	9.5 (21.6)

### Mounting Hardware Specifications

Mounting Bracket Part Number	600691A-2
Mount Description	Adjustable downtilt, 0 - 22 degrees
Mount Weight, kg (lb)	1.0 (2.2)
To include mounting bracket with antenna, order part number:	<b>PCS-XAZ04-ODM</b>
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1295 (51) x 300 (11.8) x 254 (10)
Shipping Weight - mount with antenna, kg (lb)	10.6 (24.1)

**Customer Support Center:**  
From North America: 1-800-255-1479  
International: +1-708-873-2307

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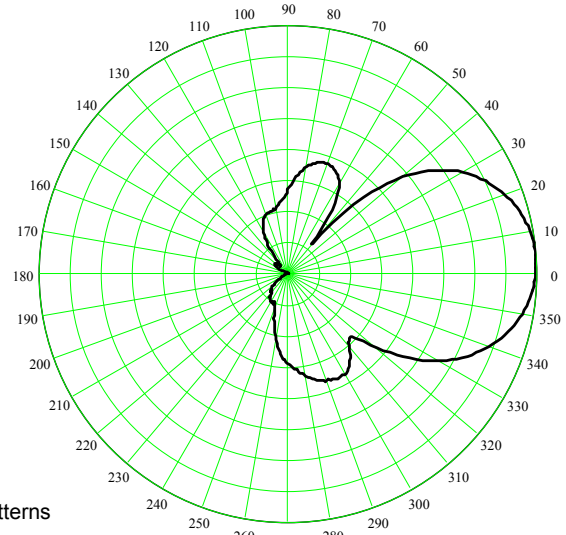
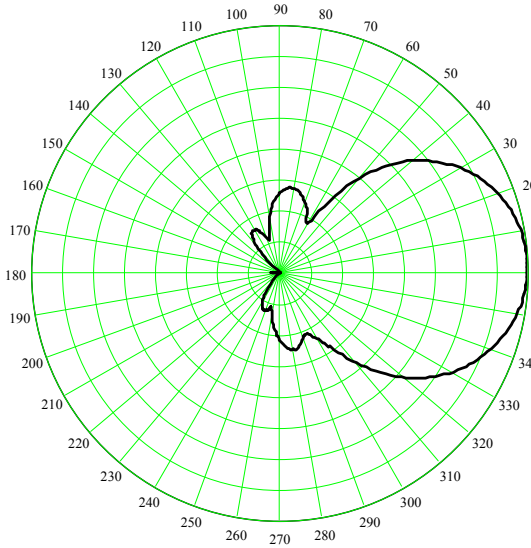
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# Base Station Antennas

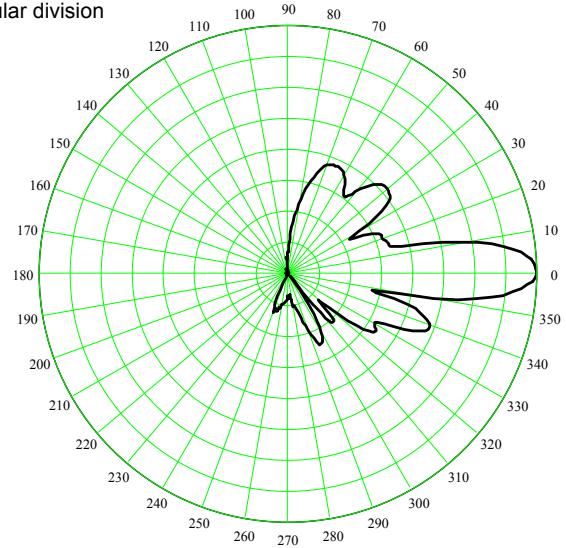
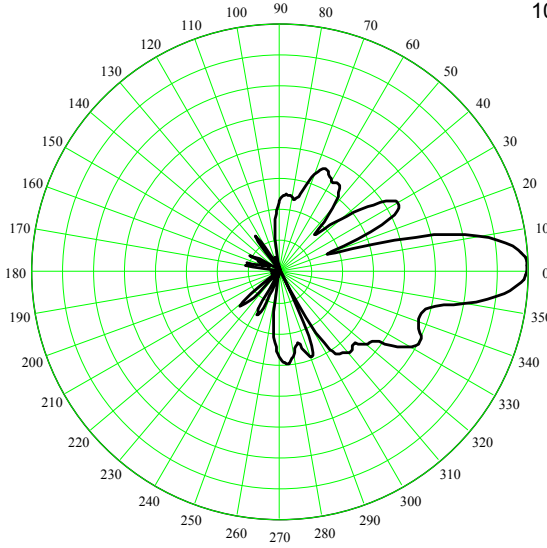


## ANTENNA SPECIFICATIONS

ANTENNA TYPE: PCS-XAZ04-0D



Azimuth Patterns  
 Polar Plot Center = -40dB  
 5 dB / radial division  
 10 degree / angular division



Elevation Patterns  
 Polar Plot Center = -40dB  
 5 dB / radial division  
 10 degree / angular division

Pattern File 6404631  
 Measured at 1790 MHz

Pattern File 6404632  
 Measured at 1920 MHz

# Base Station Antennas



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## ANTENNA SPECIFICATIONS

### ANTENNA TYPE: PCS-XAZ04-0D

Description: 1710-1990 MHz, single polarized, azimuth beamwidth set at 45 degrees, 16 dBd gain panel antenna with 0 degrees of electrical downtilt

### Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990
Gain, dBd (dBi)	14.9 (17.1)	15.5 (17.7)
Azimuth Beamwidth, degrees	47	45
Elevation Beamwidth, degrees	11	10
Front-to-Back Ratio, dB	>38	>38
Return Loss, dB (VSWR)	>14.0 (<1.5)	>14.0 (<1.5)
Impedance, ohms	50	50
Port to Port Isolation, dB	NA	NA
Intermodulation, dBc		<-150
Polarization Type		Single, Vertical
Electrical Downtilt, degrees		0
Maximum Input Power, watts		250
Lightning Protection		DC Ground
Connector Type		7-16 DIN Female
Connector Position		Bottom
Number of Connectors		1

### Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	988 (38.9) x 295 (11.6) x 151 (5.9)
Antenna Weight, kg (lb)	6.3 (13.8)
Radome Color	Gray
Radome Material	UV Protected PVC

### Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	369 (83)
Wind Load - lateral, N (lbf)*	298 (67)
Wind Load - rear, N (lbf)*	461 (104)
Temperature Range, degrees C	-40 to +65
Humidity, %	Up to 100

\* Based on 100 mph (161 km/h)

### Shipping Specifications

Shipping Dimensions - L x W x D, mm (in)	1213 (47.8) x 300 (11.8) x 254 (10)
Shipping Weight, kg (lb)	9.5 (21.6)

### Mounting Hardware Specifications

Mounting Bracket Part Number	600691A-2
Mount Description	Adjustable downtilt, 0 - 22 degrees
Mount Weight, kg (lb)	1.0 (2.2)
To include mounting bracket with antenna, order part number:	<b>PCS-XAZ04-ODM</b>
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1295 (51) x 300 (11.8) x 254 (10)
Shipping Weight - mount with antenna, kg (lb)	10.6 (24.1)

**Customer Support Center:**  
From North America: 1-800-255-1479  
International: +1-708-873-2307

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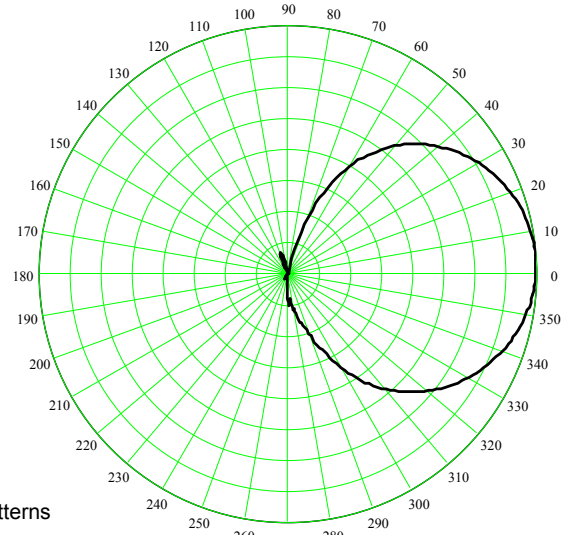
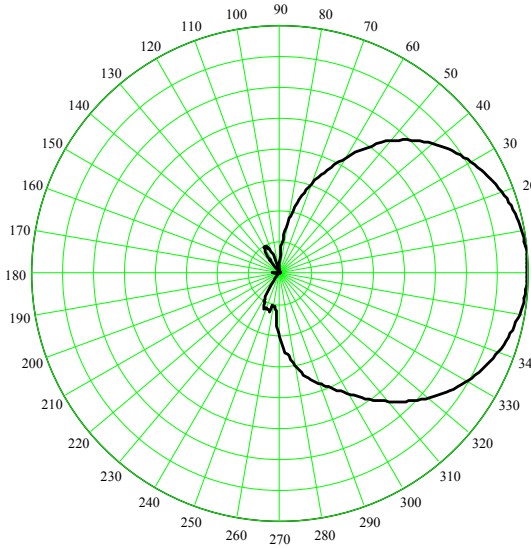
# Base Station Antennas



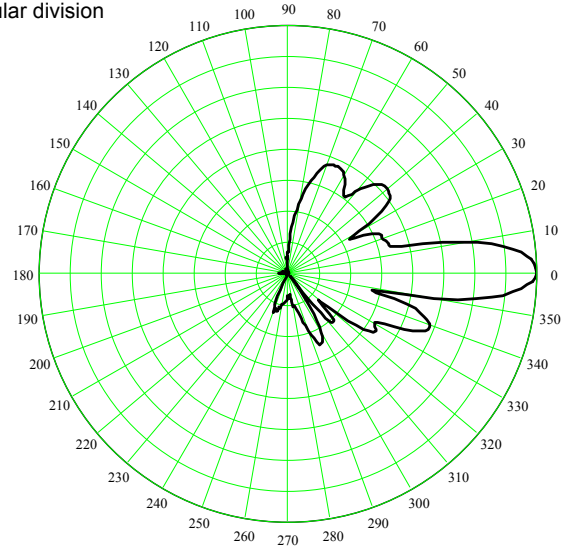
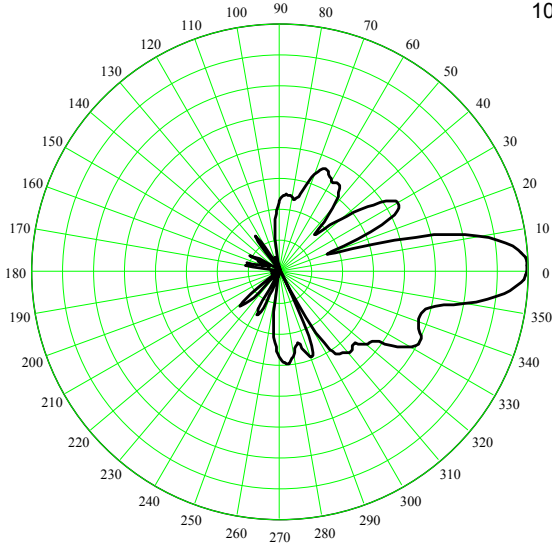
## ANTENNA SPECIFICATIONS

ANTENNA TYPE: PCS-XAZ04-0D

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Azimuth Patterns  
Polar Plot Center = -40dB  
5 dB / radial division  
10 degree / angular division



Pattern File 6404641  
Measured at 1790 MHz

Elevation Patterns  
Polar Plot Center = -40dB  
5 dB / radial division  
10 degree / angular division

Pattern File 6404642  
Measured at 1920 MHz

# Base Station Antennas



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## ANTENNA SPECIFICATIONS

### ANTENNA TYPE: PCS-XAZ04-0D

Description: 1710-1990 MHz, single polarized, azimuth beamwidth set at 65 degrees, 14 dBd gain panel antenna with 0 degrees of electrical downtilt

### Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990
Gain, dBd (dBi)	13.4 (15.6)	14.0 (16.2)
Azimuth Beamwidth, degrees	67	65
Elevation Beamwidth, degrees	11	10
Front-to-Back Ratio, dB	>38	>38
Return Loss, dB (VSWR)	>14.0 (<1.5)	>14.0 (<1.5)
Impedance, ohms	50	50
Port to Port Isolation, dB	NA	NA
Intermodulation, dBc		<-150
Polarization Type		Single, Vertical
Electrical Downtilt, degrees		0
Maximum Input Power, watts		250
Lightning Protection		DC Ground
Connector Type		7-16 DIN Female
Connector Position		Bottom
Number of Connectors		1

### Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	988 (38.9) x 295 (11.6) x 151 (5.9)
Antenna Weight, kg (lb)	6.3 (13.8)
Radome Color	Gray
Radome Material	UV Protected PVC

### Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	586 (132)
Wind Load - lateral, N (lbf)*	292 (66)
Wind Load - rear, N (lbf)*	635 (143)
Temperature Range, degrees C	-40 to +65
Humidity, %	Up to 100

\* Based on 100 mph (161 km/h)

### Shipping Specifications

Shipping Dimensions - L x W x D, mm (in)	1213 (47.8) x 300 (11.8) x 254 (10)
Shipping Weight, kg (lb)	9.5 (21.6)

### Mounting Hardware Specifications

Mounting Bracket Part Number	600691A-2
Mount Description	Adjustable downtilt, 0 - 22 degrees
Mount Weight, kg (lb)	1.0 (2.2)
To include mounting bracket with antenna, order part number:	<b>PCS-XAZ04-ODM</b>
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1295 (51) x 300 (11.8) x 254 (10)
Shipping Weight - mount with antenna, kg (lb)	10.6 (24.1)

### Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

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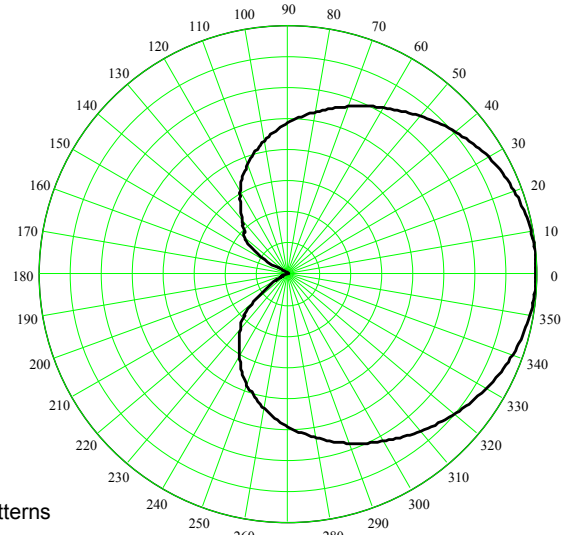
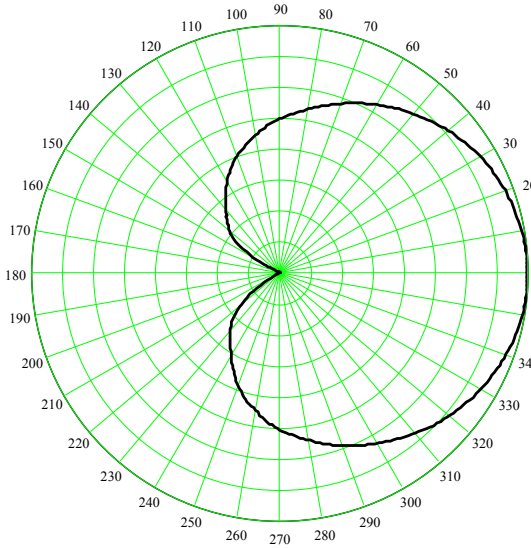
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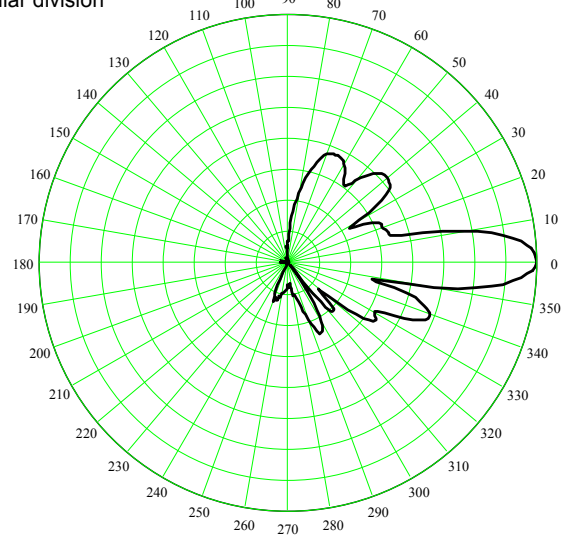
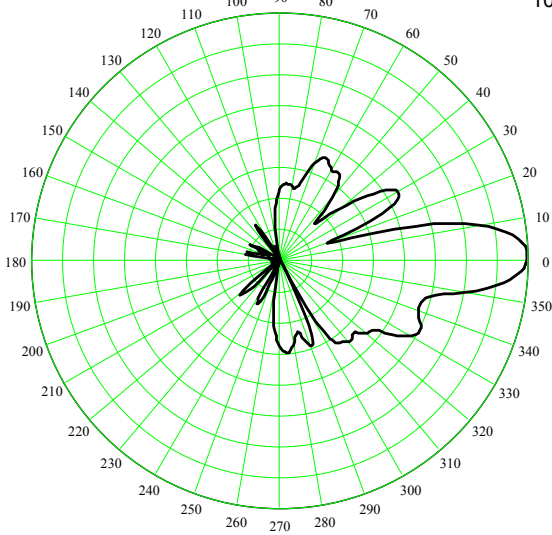
## ANTENNA SPECIFICATIONS

ANTENNA TYPE: PCS-XAZ04-0D

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Azimuth Patterns  
Polar Plot Center = -40dB  
5 dB / radial division  
10 degree / angular division



Pattern File 6404651  
Measured at 1790 MHz

Elevation Patterns  
Polar Plot Center = -40dB  
5 dB / radial division  
10 degree / angular division

Pattern File 6404652  
Measured at 1920 MHz