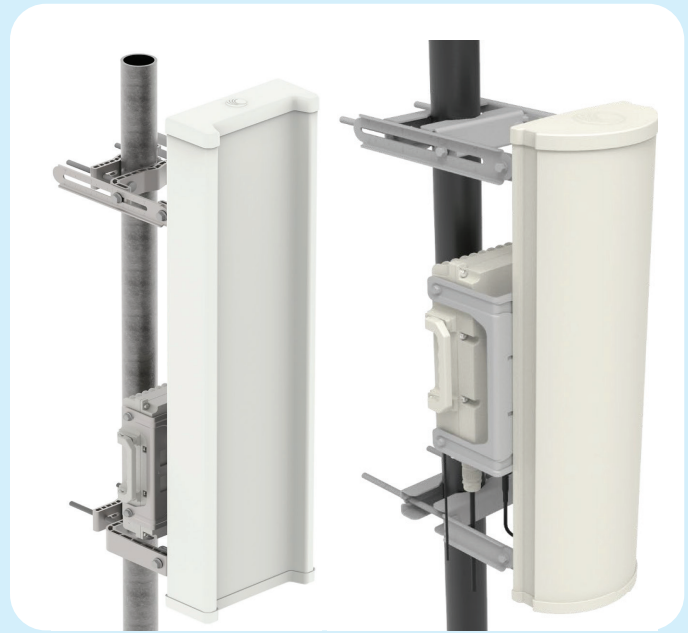


2 GHz and 3 GHz cnRanger 90 Sector Antenna

QUICK LOOK:

The cnRanger™ Fixed LTE wireless platform from Cambium Networks substantially increases range and coverage, while reducing the cost and complexity typically associated with LTE networks.

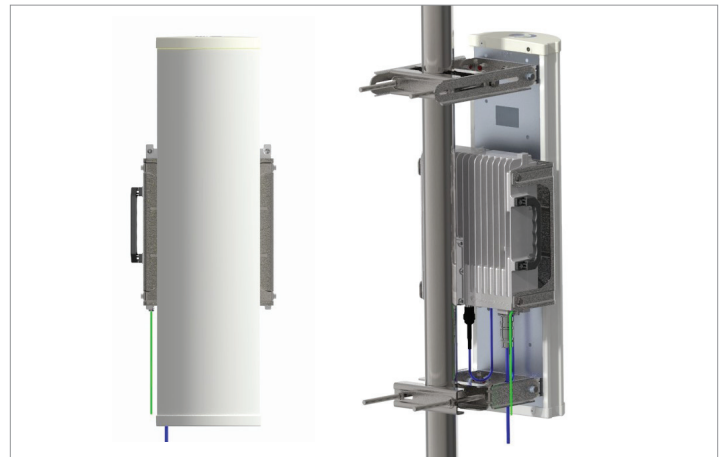
- **Optimized coverage for fixed wireless deployment**
- **Innovative antenna design**
- **Simplified design to attach RRH**



2 GHz



3 GHz



2 GHz and 3 GHz cnRanger 90 Sector Antenna

Product		
Model	2.3 -2.7 GHz 90° Sector antenna	3.4 -3.9 GHz 90° Sector antenna
Model Numbers	2LTE-ANT-90	3LTE-ANT-90

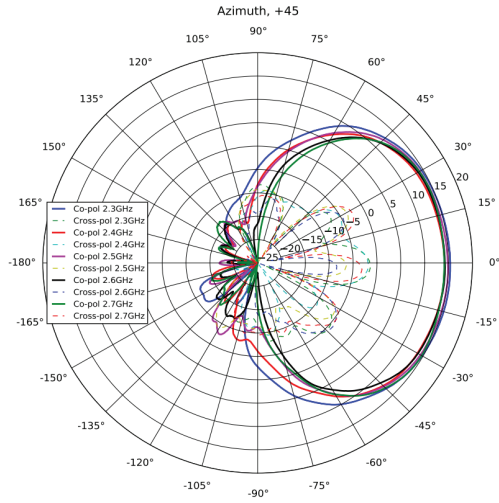
Specifications

Antenna		
	2.3 -2.7 GHz 90° Sector antenna	3.4 -3.9 GHz 90° Sector antenna
Frequency Range	2300 MHz to 2700 MHz	3400 MHz to 3900 MHz
Gain	16 dBi	17 dBi
VSWR	2:1 max	2:1 max
3 dB BEAMWIDTH - AZIMUTH	90°	90°
6 dB BEAMWIDTH - AZIMUTH	120°	120°
3 dB BEAMWIDTH - ELEVATION	7°	7°
Pattern Roll Off at Sector Edge	12 dB	8 dB
Electrical Tilt	-2° (2° downtilt)	-2° (2° downtilt)
POLARIZATION	Slant, +/- 45 Degrees	Slant, +/- 45 Degrees
FRONT-TO-BACK ISOLATION	>25 dB	>25 dB
CROSS POLARIZATION	>16 dB	>16 dB
Port-to-Port Isolation	> 20 dB	>20 dB
Maximum Input Power	5 W	5 W
Input Impedance	50 Ohms	50 Ohms
Mounting Connectors	N Type	N Type
Mounting Hardware	Included for mounting to mast diameters 2" to 4.5" (5.1 cm to 11.4 cm), -10° to 5° tilt. Mounts with RRH.	Included for mounting to mast diameters 2" to 4.5" (5.1 cm to 11.4 cm), -10° to 5° tilt. Mounts with RRH.
Physical Dimensions	42.2" (H) x 10.7" (W) x 4.4" (D) (1072 mm x 272 mm x 113 mm)	28.8" (H) x 7.8" (W) x 5.9" (D) (732 mm x 197 mm x 150 mm)
Weight	17 Kg with RRH and mounting equipment	15 Kg with RRH and mounting equipment
Environmental	IP66	IP56
Radome Material	UV Stabilized	UV Stabilized
Operating Temperature	-40°C to +85°C	-40°C to +85°C
Rated Wind Velocity	180 Km/Hr	180 Km/Hr
Lightning Protection	DC Grounded	DC Grounded

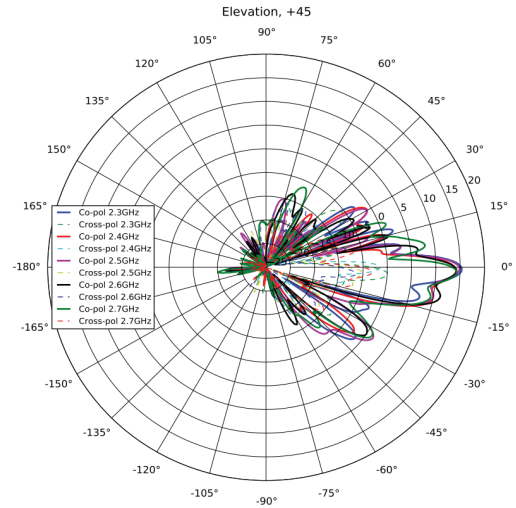
2 GHz and 3 GHz cnRanger 90 Sector Antenna

2 GHz Polar plots

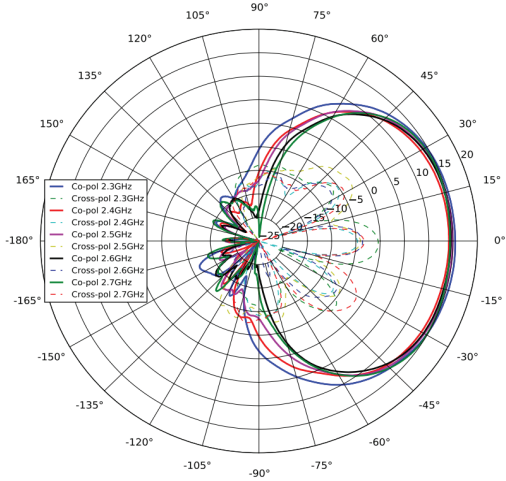
Azimuth



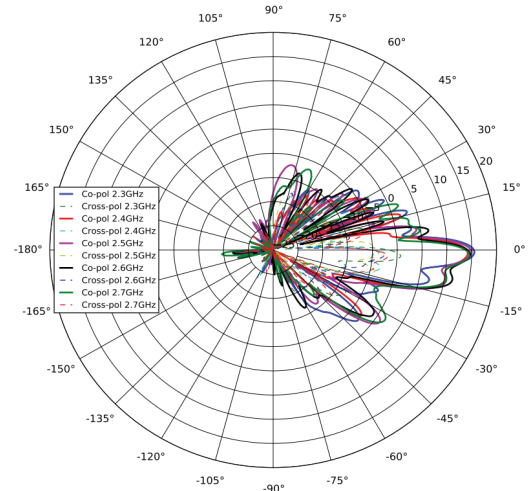
Elevation



Azimuth, -45



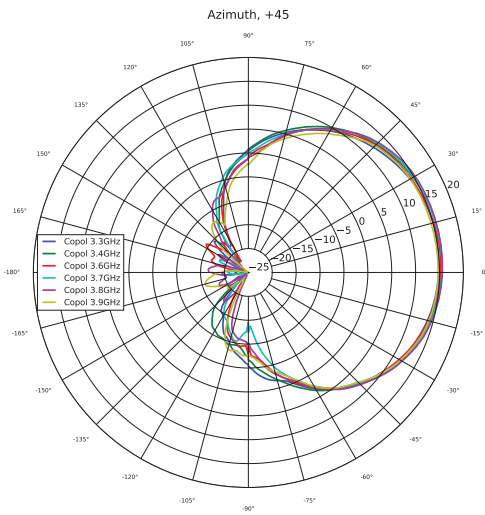
Elevation, -45



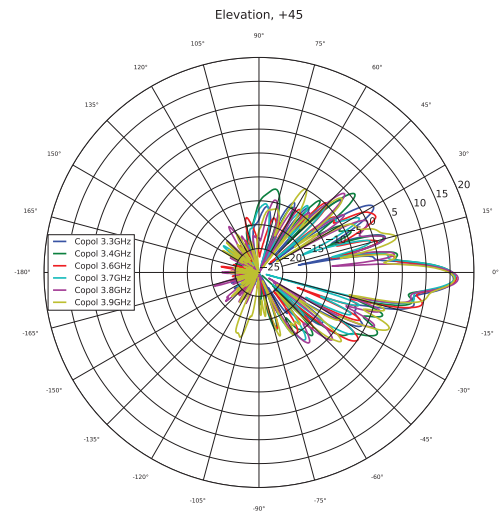
2 GHz and 3 GHz cnRanger 90 Sector Antenna

3 GHz polar plots

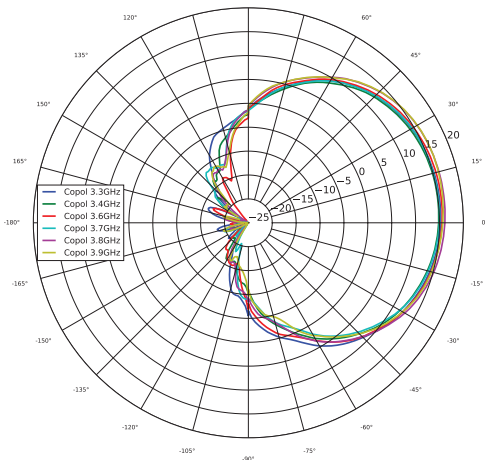
Azimuth



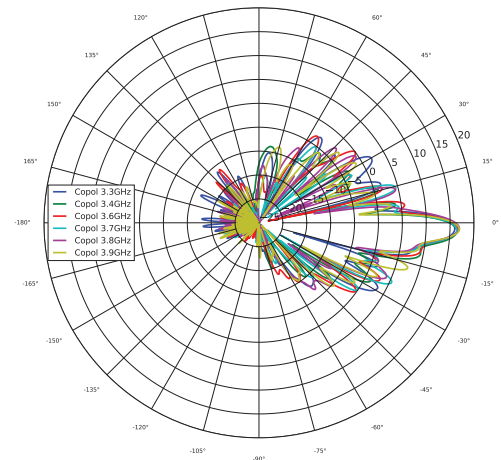
Elevation



Azimuth, -45



Elevation, -45



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.