

## Application Brief

### PMP 450 ACCESS POINT ANTENNA OPTIONS

#### Application

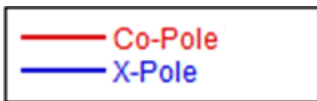
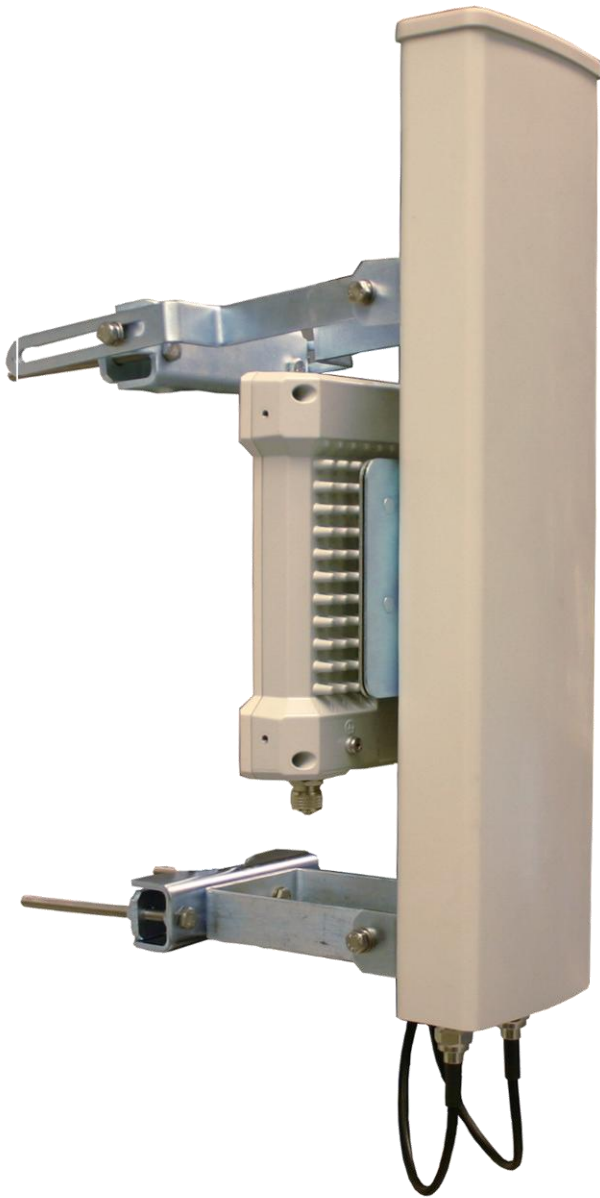
The PMP 450 Access Point is connectorized to allow network operators the ability to select the antenna that best meets the needs of their specific application. This family of antennas was specifically designed for use with the PMP 450 platform of products, and delivers optimized performance, including maximized spectral efficiency, triple null fill, and easy installation.

The following detailed information is useful in understanding antenna performance.

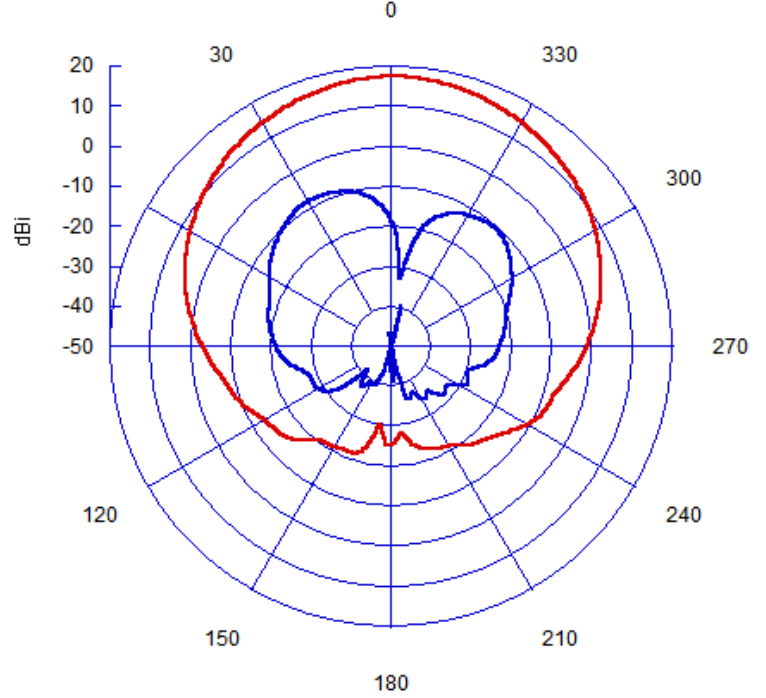
#### Specification Table

Specifications	85009324001	85009325001	
		OFDM	FSK
Frequency Range	5.4-6.0 GHz	5.4-6.0 GHz	
Antenna Type	Access Point Sector	Access Point Sector	
Gain	17dBi +1dBi /-1dBi	17 dBi +/- 1 dBi	10 dBi +/- 1 dBi
VSWR	1.5:1 max	1.5:1 max	
Port To Port Isolation	33 dB	>30 dB to all ports	
3dB Beamwidth-Azimuth	65°	45°	60°
3dB Beamwidth-Elevation	6°	8°	50°
Elevation Null Fill	Down to -23°	Down to -25°	N/A
1 <sup>st</sup> Null	-18dB min	-18dB min	N/A
2 <sup>nd</sup> Null	-33dB min	-33dB min	N/A
3 <sup>rd</sup> Null	-36dB min	-36dB min	N/A
Azimuth Sidelobes	ETSI EN 302.326-3 SS2	ETSI EN 302.326-3 SS2	ETSI EN 302.326-3 SS1
Polarization	Dual Linear, Horizontal / Vertical	Dual Linear, Horizontal / Vertical	Linear, Vertical
Maximum Input Power	30 W	30 W	10 W
Input Impedance	50 Ohms	50 Ohms	
Front-to-Back Ratio	V-pol>32 dB, H-pol>35 dB	>35 dB	
Cross Polarization	>28 dB	>25 dB	>20 dB
Dimensions (HxWxD) (mm)	570 x 146 x 64	468 x 146 x 64	
Antenna Weight (kg)	2.9 kg, w/o bracket kit	2.8 kg, w/o bracket kit	
Antenna Connector	2 x N-Type Female, Straight	3 x Type N Female, Straight	
Wind Survival	216 km/h	216 km/h	
Pole Mounting Hardware	Quick Release, 1.5" to 4.5" Dia. Pole	Quick Release, 1.5" to 4.5" Dia. Pole	
Mechanical Downtilt	0° to 11°	0° to 11°	

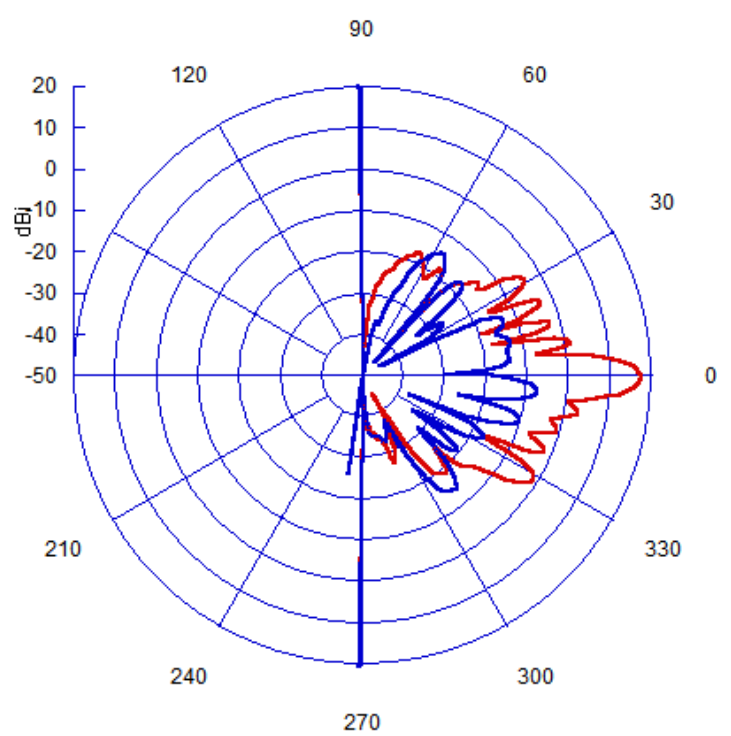
90 Degree Sector Antenna – 85009324001



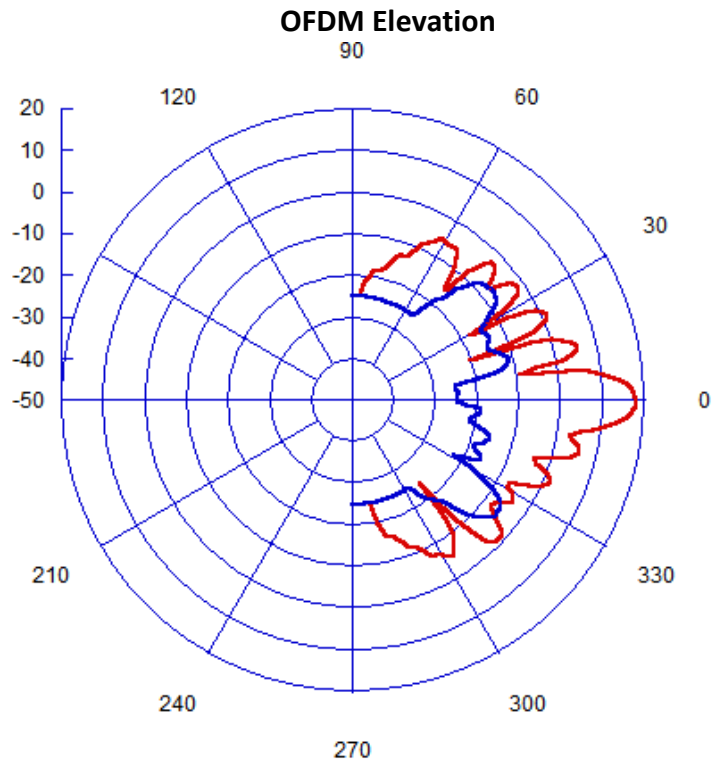
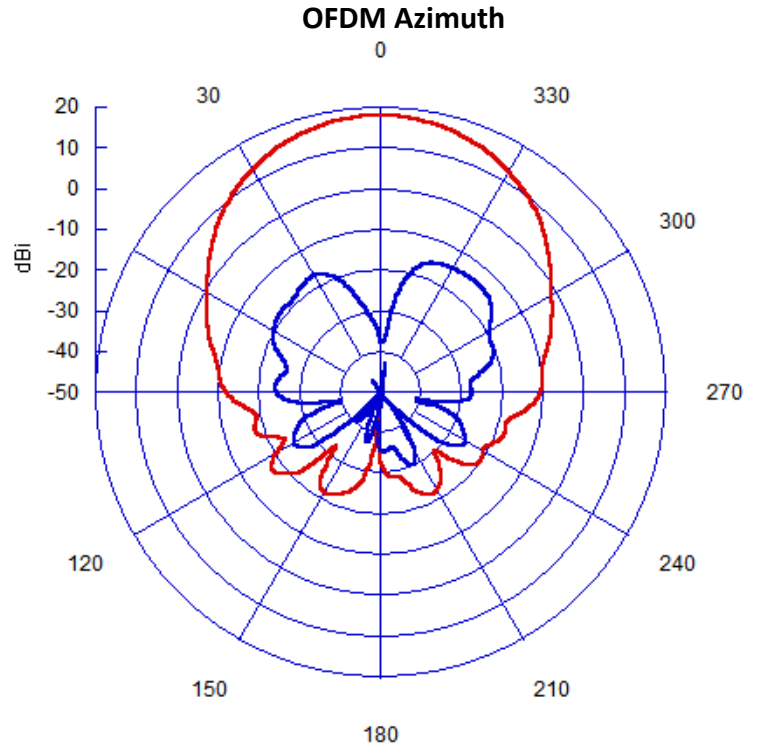
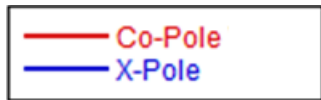
OFDM Azimuth



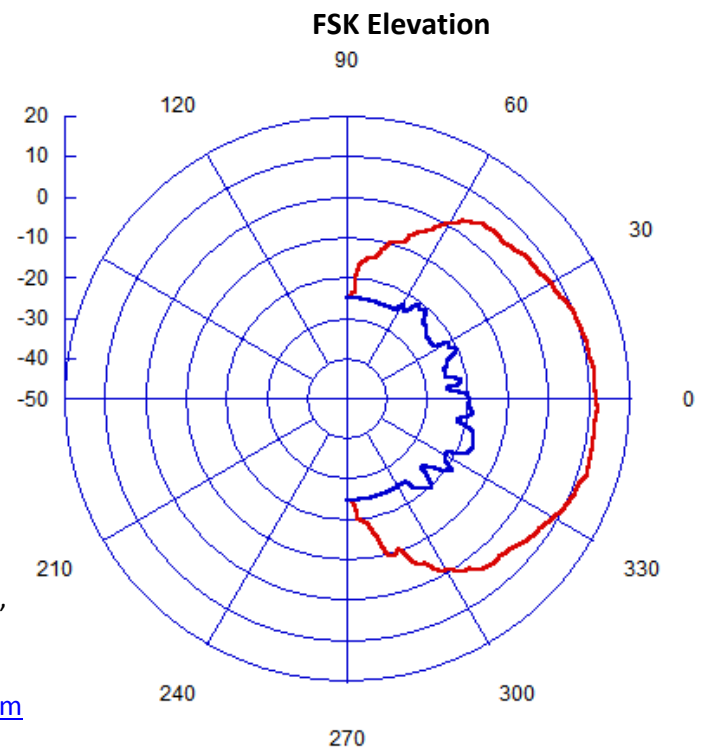
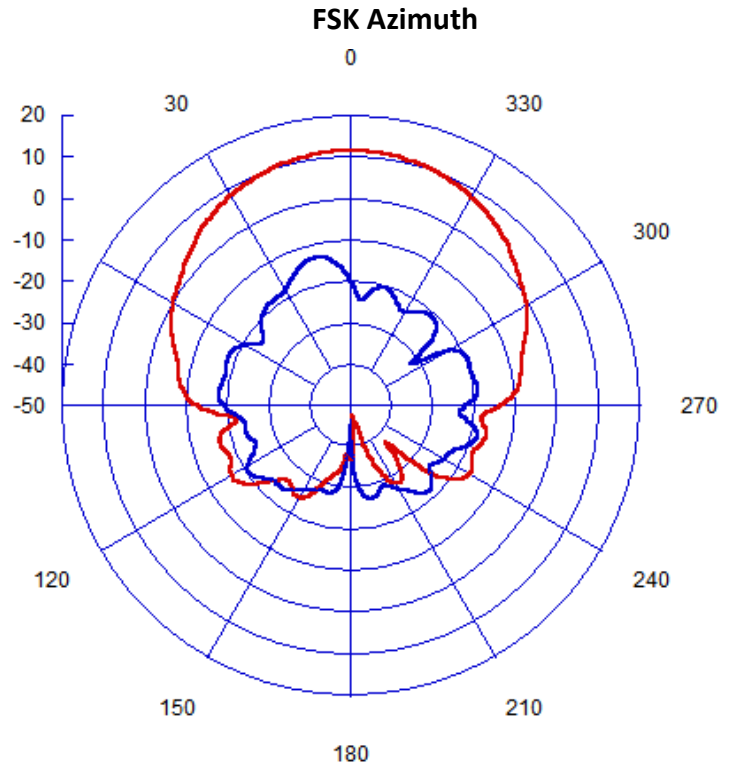
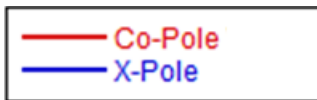
OFDM Elevation



60 Degree Sector Antenna – 85009325001



60 Degree Sector Antenna – 85009325001 (Cont'd.)



Note: Differences between polarizations are negligible, Vertical polarity patterns are shown.

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