SPECIFICATIONS

Octo-port Multiband Antenna

OPA65R-E5A

Electrical

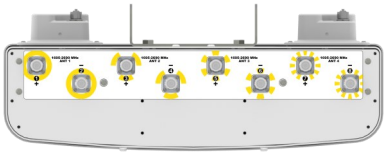
Ports	8 X Ports which cover the full range from 1695-2690 MHz				
Frequency Range	1695-1880 MHz	1850-1990 MHz	1920-2180 MHz	2300-2400 MHz	2496-2690 MHz
Gain (Peak)	17.7 dBi	18.1 dBi	18.5 dBi	18.5 dBi	18.4 dBi
Gain (Average)*	17.3 dBi	17.4 dBi	17.7 dBi	17.9 dBi	17.5 dBi
Azimuth Beamwidth (-3dB)	64°	64°	64°	65°	62°
Elevation Beamwidth (-3dB)	6.4°	5.9°	5.5°	4.5°	4.3°
Electrical Downtilt	0° to 10°	0° to 10°	0° to 10°	0° to 10°	0° to 10°
Elevation Sidelobes (1st Upper)	<-17dB	<-18 dB	<-18 dB	<-16 dB	<-18 dB
Front-to-Back Ratio @180°	> 35 dB	> 35 dB	> 35 dB	> 35 dB	> 35 dB
Cross-Polar Discrimination at Peak	> 21 dB	> 19 dB	> 21 dB	> 25 dB	>21 dB
Cross-Polar Discrimination* at ±60°	13.4 dB	10.5 dB	10.1 dB	8.8 dB	9.6 dB
Voltage Standing Wave Ratio (VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2x20W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	300 watts	300 watts	300 watts	300 watts	300 watts
Polarization	+/- 45°	+/- 45°	+/- 45°	+/- 45°	+/- 45°
Input Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Lightning Protection	DC Gnd	DC Gnd	DC Gnd	DC Gnd	DC Gnd

*Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V9.6.

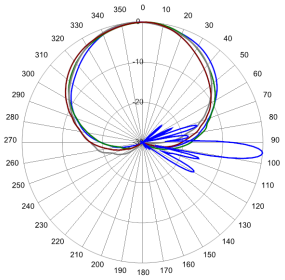
Mechanical

Rear Isometric View

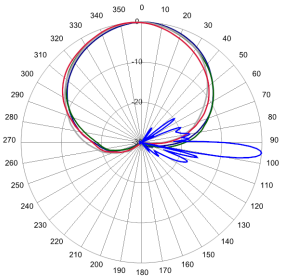
Bottom



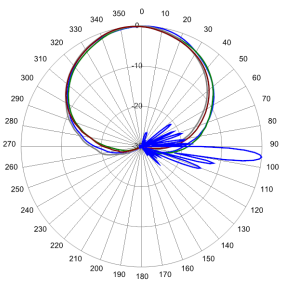
Dimensions (LxWxD)	60.0 x 23.2x 4.7 inches (1524×589×119 mm)
Survival Wind Speed	> 150 mph (> 241 km/hr)
Front Wind Load	298 lbs (1325 N) @ 100 mph (161 kph)
Side Wind Load	80 lbs (354N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	11.6 ft² (1.1 m²)
Weight	56.2 lbs (25.5 kg)
Connector	8 × 4.3-10
Mounting Pole	2 to 5 in (5 to 12 cm)



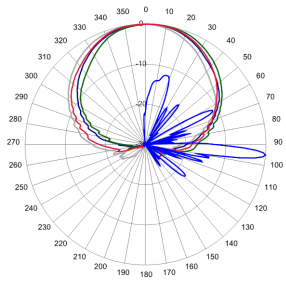
1730MHz Azimuth /Elevation 5º



1930MHz Azimuth /Elevation 5º



2140MHz Azimuth /Elevation 5º



2640MHz Azimuth /Elevation 5º