

Prolix Dual / Quad Frequency Sector Antennas

Achieve Optimal Network Performance with the Prolix QP and TH Sector Antenna Range

Prolix Sector Antennas, strategically deployed on fixed infrastructure, significantly enhance network coverage in large and challenging environments. With their extended reach, minimized interference, and reliable connectivity, these antennas ensure unmatched performance, seamless communication, and expanded coverage for operations in even the most demanding conditions.



Specifications Prolix NGT-2455-8TH Standard Gain

Model	Prolix NGT-2455-8TH	
Suitable for	Rajant Hawk FE1 2450 , Sparrow ME5 2450CS, ES1 2450CS	
Frequency	2.4 – 2.5 GHz band	5.15 – 5.85 GHz band
Peak Gain (dBi)	10.8 dBi	10.5 dBi
Polarisation	Vertical 2X2	Vertical 2X2
Patterns		
-3 dB beamwidth Az	85 +/-4 degrees	65 +/-4 degrees
-4.5 dB beamwidth Az	102 +/-4 degrees	85 +/-4 degrees
-3 dB beamwidth El	34 +/-2 degrees	32 +/-2 degrees
-4.5 dB beamwidth El	40 +/-2 degrees	38 +/-2 degrees
Elevation tilt	Mechanical + 20 degrees / - 35 degrees	
Front to back ratio	> 20 dB	
Cross polarization	> 20 dB	
Isolation between ports	> 20 dB min (Typical > 25 dB)	
Input impedance	50 Ohms	
VSWR	Maximum 2:1 Typical 1.5:1	
Maximum input power	10 Watts	
RF interface	N(Male) x 4	
External finish	ABS Radome with Stainless steel (304) backplate and brackets	
Bracket	Pole mount: Diameter < 52 mm (Optional 76mm diameter)	
Dimensions (L x W x T)	460 x 280 x 55 mm	
Rajant radio mount	Direct to antenna back plate (optional plate for ME5 Sparrow and ES1)	
Antenna Weight (Inc. bracket)	2.8 kg	

Specifications Prolix NGT-2455-10TH High Gain

Model	Prolix NGT-2455-10TH	
Suitable for	Rajant Hawk FE1 2450 , Sparrow ME5 2450CS, ES1 2450CS	
Frequency	2.4 – 2.5 GHz band	5.15 – 5.85 GHz band
Peak Gain (dBi)	12.8 dBi	12.6 dBi
Polarisation	Vertical 2X2	Vertical 2X2
Patterns		
-3 dB beamwidth Az	85 +/-4 degrees	65 +/-4 degrees
-3 dB beamwidth El	18 +/-2 degrees	16 +/-2 degrees
-4.5 dB beamwidth Az	102 +/-4 degrees	85 +/-4 degrees
-4.5 dB beamwidth El	22 +/-2 degrees	18 +/-2 degrees
Elevation tilt	Mechanical + 20 degrees / - 35 degrees	
Front to back ratio	> 20 dB	
Cross polarization	> 20 dB	
Isolation between ports	> 20 dB min (Typical > 25 dB)	
Input impedance	50 Ohms	
VSWR	Maximum 2:1 Typical 1.5:1	
Maximum input power	10 Watts	
RF interface	N(Male) x 4	
External finish	ABS Radome with Stainless steel (304) backplate and brackets	
Bracket	Pole mount: Diameter < 52 mm (Optional 76mm diameter)	
Dimensions (L x W x T)	460 x 280 x 55 mm	
Rajant radio mount	Direct to antenna back plate (optional plate for SparrowME5 and ES1)	
Antenna Weight (Inc. bracket)	3.1 kg	

Specifications Prolix NGT-5055-8TH Standard Gain

Model	Prolix NGT-5055-8TH
Suitable for	Rajant Hawk FE1 5050 , Sparrow ME5 5050CS , ES1 5050CS
Frequency	5.15 – 5.85 GHz band
Peak Gain (dBi)	10.5 dBi
Polarisation	Vertical 2x2
Patterns	
-3 dB beamwidth Az	65 +/-4 degrees
-3 dB beamwidth El	32 +/-2 degrees
-4.5 dB beamwidth Az	85 +/-4 degrees
-4.5 dB beamwidth El	38 +/-2 degrees
Elevation tilt	Mechanical + 20 degrees / - 35 degrees
Front to back ratio	> 20 dB
Cross polarization	> 20 dB
Isolation between ports	> 20 dB min (Typical > 25 dB)
Input impedance	50 Ohms
VSWR	Maximum 2:1 Typical 1.5:1
Maximum input power	10 Watts
RF interface	N(Male) x 4
External finish	ABS Radome with Stainless steel (304) backplate and brackets
Bracket	Pole mount: Diameter < 52 mm (Optional 76mm diameter)
Dimensions (L x W x T)	460 x 280 x 55 mm
Rajant radio mount	Direct to antenna back plate (optional plate for SparrowME5 and ES1)
Antenna Weight (Inc. bracket)	2.6 kg

Specifications Prolix NGT-5055-10TH High Gain

Model	Prolix NGT-5055-10TH
Suitable for	Rajant FE1 5050 , Sparrow ME5 5050CS , ES1 5050CS
Frequency	5.15 – 5.85 GHz band
Peak Gain (dBi)	12.6 dBi
Polarisation	Vertical 2 x 2
Patterns	
-3 dB beamwidth Az	65 +/-4 degrees
-3 dB beamwidth El	16 +/-2 degrees
-4.5 dB beamwidth Az	85 +/-4 degrees
-4.5 dB beamwidth El	18 +/-2 degrees
Elevation tilt	Mechanical + 20 degrees / - 35 degrees
Front to back ratio	> 20 dB
Cross polarization	> 20 dB
Isolation between ports	> 20 dB min (Typical > 25 dB)
Input impedance	50 Ohms
VSWR	Maximum 2:1 Typical 1.5:1
Maximum input power	10 Watts
RF interface	N(Male) x 4
External finish	ABS Radome with Stainless steel (304) backplate and brackets
Bracket	Pole mount: Diameter < 52 mm (Optional 76mm diameter)
Dimensions (L x W x T)	460 x 280 x 55 mm
Rajant radio mount	Direct to antenna back plate
Antenna Weight (Inc. bracket)	2.9 kg

Specifications Prolix NGT-2455-8QP

Rajant Peregrine FE1

Model	Prolix NGT-2455-QP (Peregrine)	
Frequency	2.4 – 2.5 GHz band	5.15 – 5.85 GHz band
Peak Gain (dBi)	10.8 dBi	10.5 dBi
Polarisation	Vertical (2x2) + (2x2)	Vertical (2x2) + (2x2)
Patterns		
-3 dB beamwidth Az	85 +/-4 degrees	65 +/-4 degrees
-3 dB beamwidth El	34 +/-2 degrees	32 +/-2 degrees
-4.5 dB beamwidth Az	102 +/-4 degrees	85 +/-4 degrees
-4.5 dB beamwidth El	40 +/-2 degrees	38 +/-2 degrees
Elevation tilt	Mechanical + 20 degrees / - 35 degrees	
Front to back ratio	> 20 dB	
Cross polarization	> 20 dB	
Isolation between ports	> 20 dB min (Typical > 25 dB)	
Input impedance	50 Ohms	
VSWR	Maximum 2:1 Typical 1.5:1	
Maximum input power	10 Watts	
RF interface	N(Male) x 8	
External finish	ABS Radome with Stainless steel (304) backplate and brackets	
Bracket	Pole mount: Diameter < 52 mm (Optional 76mm diameter)	
Dimensions (L x W x T)	460 x 460 x 55 mm	
Rajant radio mount	Direct to antenna back plate	
Antenna Weight (Inc. bracket)	4.4Kg	