

P-BBLLYYZ06-01

14-Ports, X-Pol, Panel Antenna, 0.6m, 2x 694-960/2x 1695-2690/2x 3300-4200/ 5150-5925, 65deg, Fixed Tilt

FEATURES / BENEFITS

This antenna provides a 14 port 65-degree platform for advanced use in encompassing low band 700MHz and 800MHz deployment scenarios and high band AWS, PCS, BRS, CBRS, C-Band and LAA in a high quality package design built to withstand harsh environments.

- Expanded 3.3 - 4.2 GHz range to cover CBRS & full C-BAND
- 4x4 MIMO on 700/800/900/AWS/PCS/BRS/CBRS/C-BAND
- 2X2 MIMO on LAA
- Quick and Easy Installation

**Technical features****ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		Low Band Arrays (694-960 MHz) Ports 1-4			
Frequency Range	MHz	694-806	806-894	880-960	
Gain Typical	dBi	7.5	7.4	7.0	
Gain Over All Tilts	dBi	6.6+/-0.9	6.8+/-0.6	6.3+/-0.7	
Horizontal Beamwidth	deg	81+/-6	79+/-8	87+/-18	
Vertical Beamwidth	deg	94+/-10	78+/-8	80+/-12	
Electrical Downtilt	deg	0.0	0.0	0.0	
Cross Polar Isolation	dB	25	25	25	
Cross Polar at 60 deg	dB	2.6	3.6	7.5	
VSWR	-	1.5:1	1.5:1	1.5:1	
3rd Order IMP 2 x 43dBm	dBc	-153	-153	-153	
Maximum Power Input	Watts	100	100	100	

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Mid Band Arrays (1695-2690 MHz) Ports 5-8				
Frequency Range	MHz	1695-1880	1850-1990	1920-2200	2300-2496	2496-2690
Gain Typical	dBi	12.4	12.9	13.2	13.2	14.0
Gain Over All Tilts	dBi	11.9+/-0.5	12.4+/-0.5	12.8+/-0.4	13+/-0.2	13.7+/-0.3
Horizontal Beamwidth	deg	76+/-5	72+/-4	67+/-5	70+/-7	60+/-8
Vertical Beamwidth	deg	20+/-1	19+/-1	17+/-1.5	15+/-1	13.7+/-1
Electrical Downtilt	deg	0.0	0.0	0.0	0.0	0.0
Cross Polar Isolation	dB	25	25	25	25	25
Cross Polar at 60 deg	dB	13	13	11	5	10
VSWR	-	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
3rd Order IMP 2 x 43dBm	dBc	-153	-153	-153	-153	-153
Maximum Power Input	Watts	100	100	100	100	100

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Arrays (3300-4200) Ports 9-12			
Frequency Range	MHz	3300-3400	3400-3700	3700-4000	4000-4200
Gain Typical	dBi	10.6	10.3	10.4	10.4
Gain Over All Tilts	dBi	10.2+/-0.4	9.9+/-0.4	9.9 +/- .5	10.1+/-0.3
Max Gain	dBi	10.7	10.3	10.4	10.6
Min Gain	dBi	9.7	9.2	8.9	9.5
Horizontal Beamwidth	deg	71+/-7	68+/-9	59+/-7	59+/-4
Vertical Beamwidth	deg	34+/-2	32+/-4	26+/-2	25+/-3
Electrical Downtilt	deg	0.0	0.0	0.0	0.0
Cross Polar Isolation	dB	25	25	25	25
Cross Polar at 60 deg	dB	7	5	1	1
VSWR	-	1.5:1	1.4:1	1.5:1	1.5:1
3rd Order IMP 2 x 43dBm	dBc	/	-153	/	/
Maximum Power Input	Watts	75	75	75	75

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Arrays (5150-5925) Ports 13-14			
Frequency Range	MHz	5150-5925			
Gain Typical	dBi	5.4			
Gain Over All Tilts	dBi	4.9+/-0.5			
Horizontal Beamwidth	deg	69+/-13			
Vertical Beamwidth	deg	25+/-7			
Electrical Downtilt	deg	0.0			
Cross Polar Isolation	dB	25			
Cross Polar at 60 deg	dB	3			
VSWR	-	1.4:1			
3rd Order IMP 2 x 43dBm	dB	/			
Maximum Power Input	Watts	5			

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		5 GHz FCC Power Requirements			
U-NII Band	-	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3
Frequency	MHz	5150-5250	5250-5350	5470-5725	5725-5850
Max Input power per port to align with FCC Title 47 Part 15	Watts	0.5	0.125	0.125	0.5

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50			
Polarization	Deg	±45°			

P-BBLLYYZ06-01

14-Ports, X-Pol, Panel Antenna, 0.6m, 2x 694-960/2x 1695-2690/2x 3300-4200/ 5150-5925,
65deg, Fixed Tilt

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	609 x 340 x 200 (24 x 13.4 x 7.9)
Weight (Antenna Only)	kg (lb)	7 (15.4)
Weight (Mounting Hardware only)	kg (lb)	4.2 (9.3)
Packing size- HxWxD	mm (in)	710 x 420 x 385 (28 x 16.5 x 15.2)
Shipping Weight	kg (lb)	13.4 (29.5)
Connector type		14 x 4.3-10 Long Neck Female/Bottom
Radome Material / Color		ASA / Light Grey RAL7035

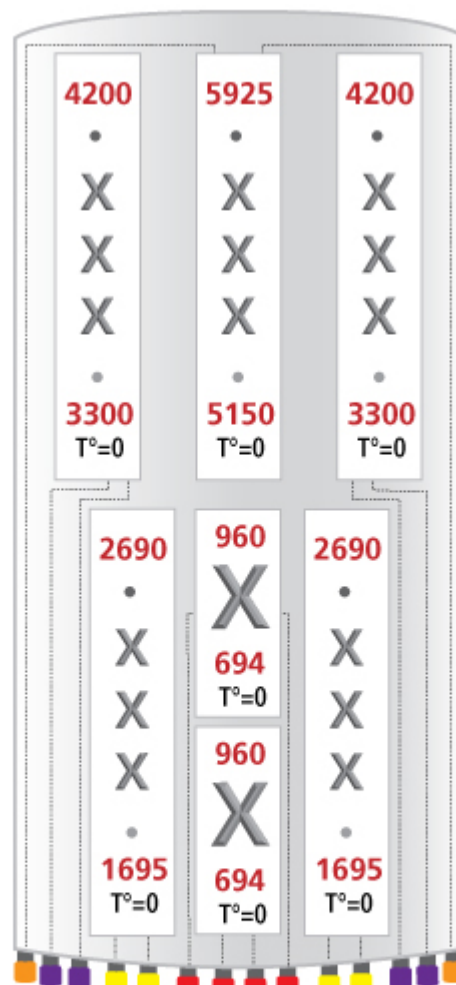
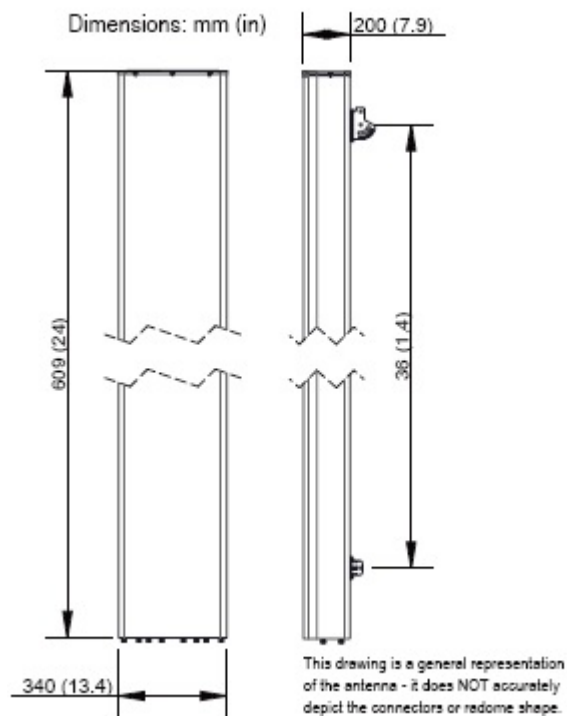
TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	240 (160)
Wind Load @Rated Wind Front	N	234
Wind Load @Rated Wind Side	N	151
Wind Load @Rated Wind Rear	N	253

ORDERING INFORMATION

Model Number	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
P-BBLLYYZ06-01	Fixed Tilt Panel	APM40-6C	50-120mm (2-4.72 in)	13.4 kg (29.5lbs)





APM40_Series_Installation_Instructions

- All electrical parameters are compliant with BASTA NGMN 11.1 requirements.
- For additional mounting information please click ""External Document Links"".

- Radiating patterns: Request pattern files