65°

609 mm FIXED TILT

P-BBLLYYZ06-01

Features

This antenna provides a 14-port 65° platform for advanced use in encompassing low band 700 MHz and 800 MHz 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 and full C-BAND
- 4x4 MIMO on 700/800/900/AWS/PCS/BRS/CBRS/C-BAND
- 2x2 MIMO on LAA
- Quick and easy installation



	Frequency Range (MHz)	(2x) 694-960		(2x) 1695-2690		(2x) 3300-4200		(1x) 5150-5925
_	Array	■ R1	■ R2	■ Y1	■ Y2	■ P1	■ P2	■ O1
VIEW	Constant	1-2	3-4	5-6	7-8	9-10	11-12	13-14
OVERVIEW	Connector	4 PORTS		4 PORTS		4 PORTS		2 PORTS
	Polarization	XPOL		XPOL		XPOL		XPOL
PRODUCT	Azimuth Beamwidth (avg)	65°		65°		65°		65°
_	Electrical Downtilt	0°		0°		0°		0°
	Dimensions			609 x 340 x 200 mm (24.0 x 13.4 x 7.9 in)				

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
P-BBLLYYZ06-01	Fixed Tilt Panel	APM40-6C Beam Tilt Kit Included	50-120 mm (2.0-4.7 in)	13.4 kg (29.5 lbs)

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AL SPECIFICATIONS		■ R1 ■ R2				
Range	MHz	Hz 694-960				
	MHz	694-806	880-960			
			±45°			
Over all Tilts	dBi	6.6 ± 0.9	6.8 ± 0.6	6.3 ± 0.7		
Max Gain	dBi	7.5	7.4	7		
Azimuth Beamwidth (3 dB)		81° ± 6°	79° ± 8°	87° ± 18°		
eamwidth (3 dB)	degrees	94° ± 10° 78° ± 8°		80° ± 12°		
owntilt	degrees		0°			
	Ohms		50Ω			
VSWR (Return Loss)			1.5:1 (-14 dB)			
Passive Intermodulation dBc		-153 (3rd Order for 2x20 W Carriers)				
Maximum Effective Power Per Port Watts		100 W				
Isolation	dB	25	25	25		
	Over all Tilts Max Gain amwidth (3 dB) eamwidth (3 dB) owntilt urn Loss) ermodulation Effective Power Per Port	MHz	MHz MHz 694-806 Over all Tilts Max Gain amwidth (3 dB) degrees earmwidth (3 dB) degrees Ohms owntilt degrees Ohms arm Loss) armodulation dBc	Range MHz 694-960 MHz 694-806 806-894 ±45° Over all Tilts dBi 6.6 ± 0.9 6.8 ± 0.6 Max Gain dBi 7.5 7.4 amwidth (3 dB) degrees 81° ± 6° 79° ± 8° eamwidth (3 dB) degrees 94° ± 10° 78° ± 8° owntilt degrees 0° Ohms 50Ω urn Loss) 1.5:1 (-14 dB) ermodulation dBc -153 (3rd Order for 2x20 W Carrier feetive Power Per Port Effective Power Per Port Watts 100 W		

2.6

Specifications follow BASTA guidelines.

7.5

ELECTRICAL SPECIFICATIONS

dB

Cross Polar at 60°

ΥΊ		Y2
1405	240	0

3.6

Frequency Range		MHz	1695-2690					
		MHz	1695-1880	1850-1990	1920-2200	2300-2496	2496-2690	
Polarization	1				±45°			
	Over all Tilts	dBi	11.9 ± 0.5	12.4 ± 0.5	12.8 ± 0.4	13 ± 0.2	13.7 ± 0.3	
Gain	Max Gain	dBi	12.4	12.9	13.2	13.2	14	
Azimuth Beamwidth (3 dB)		degrees	76° ± 5°	72° ± 4°	67° ± 5°	70° ± 7°	60° ± 8°	
Elevation Beamwidth (3 dB)		degrees	20° ± 1°	19° ± 1°	17° ± 1.5°	15° ± 1°	13.7° ± 1°	
Electrical D	owntilt	degrees	s 0°					
Impedance	:	Ohms			50Ω			
VSWR (Ret	urn Loss)				1.5:1 (-14 dB)			
Passive Intermodulation dBc			-153 (3rd Order for 2x20 W Carriers)					
Maximum Effective Power Per Port Watts			100 W					
Cross Polar	Isolation	dB	25	25	25	25	25	
Cross Polar at 60°		dB	13	13	11	5	10	

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ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range		MHz		3300	-4200		
		MHz	3300-3400 3400-3700 3700-4000 40				
Polarizatio	on		±45°				
	Over all Tilts	dBi	10.2 ± 0.4	9.9 ± 0.4	9.9 ± 0.5	10.1 ± 0.3	
Gain	Max Gain	dBi	10.6	10.3	10.4	10.4	
Azimuth Beamwidth (3 dB)		degrees	71° ± 7°	68° ± 9°	59° ± 7°	59° ± 4°	
Elevation Beamwidth (3 dB)		degrees	34° ± 2°	32° ± 4°	26° ± 2°	25° ± 3°	
Electrical Downtilt degrees			0°				
Impedanc	e	Ohms	50Ω				
VSWR			1.5:1	1.4:1	1.5:1	1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A	-153	N/A	N/A	
Maximum Effective Power Per Port Watts		Watts	75 W				
Cross Polar Isolation dB		dB	25	25	25	25	
Cross Polar at 60°		dB	7	5	1	1	

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

	C	•	1	ı

Frequency Range		MHz	5150-5925
	Polarization		±45°
	Over all Tilts	dBi	4.9 ± 0.5
Gain	Max Gain	dBi	5.4
Azimuth Beamwidth (3 dB)		degrees	69° ± 13°
Elevation E	Elevation Beamwidth (3 dB)		25° ± 7°
Electrical D	Electrical Downtilt		0°
Impedance	Impedance		50Ω
VSWR			1.4:1
	Passive Intermodulation 3rd Order for 2x20 W Carriers		N/A
Maximum Effective Power Per Port		Watts	5 W
Cross Pola	Cross Polar Isolation		25
Cross Polar at 60°		dB	3

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

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 W	0.125 W	0.125 W	0.5 W

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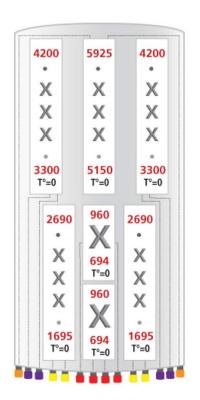
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BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
■ R1	694-960 MHz	1-2	(2x) 4.3-10 Long Neck Female
■ R2	694-960 MHz	3-4	(2x) 4.3-10 Long Neck Female
■ Y1	1695-2690 MHz	5-6	(2x) 4.3-10 Long Neck Female
■ Y2	1695-2690 MHz	7-8	(2x) 4.3-10 Long Neck Female
■ P1	3300-4200 MHz	9-10	(2x) 4.3-10 Long Neck Female
■ P2	3300-4200 MHz	11-12	(2x) 4.3-10 Long Neck Female
O 1	5150-5925 MHz	13-14	(2x) 4.3-10 Long Neck Female



The illustration is not shown to scale.

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MECHANICAL SPECIFICATIONS

Length	Length		mm (in)	609 (24.0)
Width		mm (in)	340 (13.4)	
Depth			mm (in)	200 (7.9)
Net Weight	- Antenna Only		kg (lbs)	7 (15.4)
Net Weight	- Mounting Hard	dware Only	kg (lbs)	4.2 (9.3)
Wind Load		Front	N (lbf)	234 (53)
Rated at		Side	N (lbf)	151 (34)
150 km/h (9	'3 mph)	Rear	N (lbf)	253 (57)
Survival Wir	nd Speed / Rated	Wind Speed	km/h (mph)	240 (160)
Connector	Гуре			(14x) 4.3-10 Long Neck Female at Bottom
Radome Co	lor			Light Grey RAL7035
Radome Material			ASA	
Lightning Protection			Direct Ground	
Chii.	Packing Size (Length x Width x Depth)		mm (in)	710 x 420 x 385 (28.0 x 16.5 x 15.2)
Shipping	Shipping Weig	ht	kg (lbs)	13.4 (29.5)
		-		

ENVIRONMENTAL SPECIFICATIONS

Environmental Standard		ETS 300 019
Operating Temperature	degrees	-40° to +60° C (-40° to +140° F)
Product Environmental Compliance		Product is RoHS Compliant

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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-120 mm (2.0-4.7 in) Shipped with antenna	APM40-6C	4.2 kg (9.3 lbs)

INSTALLATION Please read all installation notes before installing product.

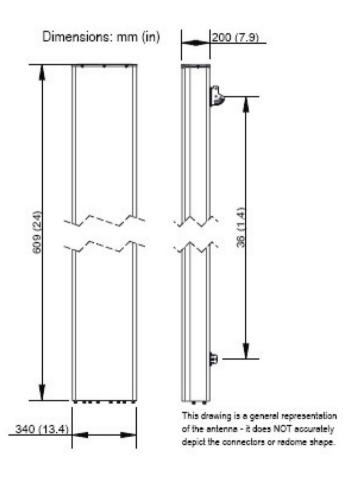


Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

EXTERNAL DOCUMENT LINKS

APM40 Mounting Kit Series Installation Instructions



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files