65°

609 mm FIXED TILT

SP-LLYYZ06-F0

Features

- 4 ports / 2 cross pol systems in mid band (1695-2690 MHz)
- 4 ports / 2 cross pol systems in high band (3300-4200 MHz)
- 2 ports / 1 cross pol system in high band (5150-5925 MHz)
- Fixed tilt



	Frequency Range (MHz)	(2x) 169	95-2690	(2x) 330	(1x) 5150-5925	
_	Array	■ Y1	■ Y2	■ P1	■ P2	O 1
OVERVIEW	Constant	1-2	3-4	5-6	7-8	9-10
OVER	Connector	4 PC	ORTS	4 PC	2 PORTS	
	Polarization	XP	OL	ХР	XPOL	
PRODUCT	Azimuth Beamwidth (avg)	65°		65°		65°
₽.	Electrical Downtilt		5°	5	0°	
	Dimensions		609 x 283	3 x 181 mm (24.0 x 11.	1 x 7.1 in)	

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
SP-LLYYZ06-F0	Fixed Tilt Panel Antenna	APM40-6	50-120 mm (2.0-4.7 in)	12.2 kg (26.9 lbs)

65°

■ Y1 ■ Y2

32

13

22

25

6

50 W

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ELECTRICAL SPECIFICATIONS

Frequency Range		MHz			1695-2690			
			1695-1880	1850-1990	1920-2200	2300-2496	2490-2690	
Polarization	Polarization			±45°				
C . : .	Over all Tilts	dBi	12.9 ± 0.3	13.3 ± 0.5	13.9 ± 0.3	14.2 ± 0.2	14.7 ± 0.2	
Gain	Max Gain	dBi	13.2	13.8	14.2	14.4	14.9	
Azimuth Bea	Azimuth Beamwidth (3 dB)		70° ± 5°	65° ± 5°	63° ± 2°	67° ± 4°	63° ± 3°	
Elevation Be	Elevation Beamwidth (3 dB)		20° ± 1°	19° ± 1°	17° ± 1°	15° ± 1°	13.4° ± 0.3°	
Electrical Do	Electrical Downtilt		5°					
Impedance	Impedance		50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
	Passive Intermodulation 3rd Order for 2x20 W Carriers				-153			
Front-to-Back Ratio, Total Power, ± 30°		dB	21	22	22	24	23	

29

13

22

27

6

30

13

22

24

13

Specifications follow BASTA guidelines.

29

13

14

24

10

33

13

16

25

10

ELECTRICAL SPECIFICATIONS

Front-to-Back at 180° Copolar

Upper Side Lobe Peak to +20°

Cross-Pol at Boresight

Cross-Pol Over Sector

Cross Polar Isolation

First Upper Side Lobe Suppression

Maximum Effective Power Per Port

dB

dB

dB

dB

dB

Watts

ELECTRICAL SPECIFICATIONS							
Frequency	y Range	MHz		3300	-4200		
		MHz	3300-3400	4000-4200			
Polarizatio	on			<u>.</u>	15°		
<i>C</i> :	Over all Tilts	dBi	10.2 ± 0.2	10.4 ± 0.5	11.1 ± 0.5	11.3 ± 0.4	
Gain	Max Gain	dBi	10.4	10.9	11.6	11.7	
Azimuth Beamwidth (3 dB)		degrees	69° ± 2°	65° ± 7°	64° ± 9°	55° ± 11°	
Elevation Beamwidth (3 dB)		degrees	37° ± 3°	34° ± 4°	30° ± 5°	28° ± 3°	
Electrical Downtilt		degrees	5°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)			1.5:1 (-14 dB)				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A	-153	N/A	N/A	
Front-to-B	Back Ratio, Total Power, ± 30°	dB	21	21	21	20	
Front-to-B	Back at 180° Copolar	dB	29	32	29	29	
First Uppe	er Side Lobe Suppression	dB	16	16	12	12	
Upper Side Lobe Peak to +20°		dB	22	22	22	22	
Cross-Pol at Boresight		dB	23	22	18	19	
Cross-Pol	Over Sector	dB	6	8	9	9	
Maximum	Effective Power Per Port	Watts	50 W				
Cross Polar Isolation		dB	25				

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65°

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ELECTRICAL SPECIFICATIONS

Frequency Range		MHz	5150-5925
Polarization			±45°
C	Over all Tilts	dBi	4.6 ± 1
Gain	Max Gain	dBi	5.6
Azimuth Be	amwidth (3 dB)	degrees	68° ± 9°
Elevation B	eamwidth (3 dB)	degrees	26° ± 3°
Electrical D	owntilt	degrees	0°
Impedance		Ohms	50Ω
VSWR (Return Loss)			1.4:1 (-15.5 dB)
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Front-to-Back Ratio, Total Power, ± 30°		dB	18
Front-to-Back at 180° Copolar		dB	26
First Upper	Side Lobe Suppression	dB	15
Upper Side	Lobe Peak to +20°	dB	22
Cross-Pol at Boresight		dB	13
Cross-Pol Over Sector		dB	2
Maximum Effective Power Per Port		Watts	5 W
Cross Polar	Isolation	dB	25

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	1.0 W	0.5 W	0.5 W	0.5 W

Specifications follow BASTA guidelines.

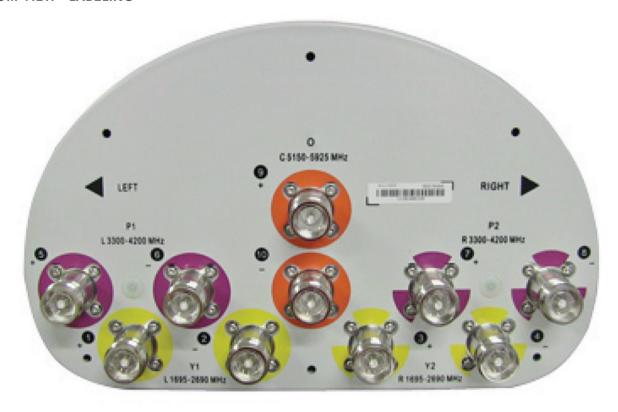


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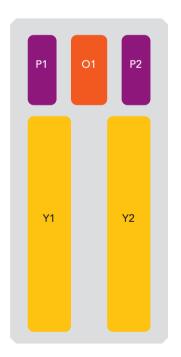
SP-LLYYZ06-F0

BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
■ Y1	1695-2690 MHz	1-2	(2x) 4.3-10 Long Neck Female
■ Y2	1695-2690 MHz	3-4	(2x) 4.3-10 Long Neck Female
■ P1	3300-4200 MHz	5-6	(2x) 4.3-10 Long Neck Female
■ P2	3300-4200 MHz	7-8	(2x) 4.3-10 Long Neck Female
■ O1	5150-5925 MHz	9-10	(2x) 4.3-10 Long Neck Female



The illustration is not shown to scale.

65°

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MECHANICAL SPECIFICATIONS

Length			mm (in)	609 (24.0)
Width		mm (in)	283 (11.1)	
Depth		mm (in)	181 (7.1)	
Net Weight	- Antenna Only		kg (lbs)	5.2 (11.5)
Net Weight - Mounting Hardware Only		kg (lbs)	4.5 (9.9)	
Wind Load		Front	N (lbf)	85 (19)
Rated at		Side	N (lbf)	63 (14)
150 km/h (9	'3 mph)	Rear	N (lbf)	124 (28)
Survival Wir	Survival Wind Speed / Rated Wind Speed		km/h (mph)	240 (160)
Connector	Гуре			(10x) 4.3-10 Long Neck Female at Bottom
Radome Co	lor			Light Grey RAL7035
Radome Material			ASA	
Lightning Protection			Direct Ground	
Chii	Packing Size (Le	ength x Width x Depth)	mm (in)	730 x 370 x 330 (28.7 x 14.6 x 13)
Shipping	Shipping Weig	ht	kg (lbs)	12.2 (26.9)

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	WEIGHT
Mounting Hardware APM40-6 fits pipe diameter 50-120 mm (2.0-4.7 in)	4.5 kg (9.9 lbs)

INSTALLATION Please read all installation notes before installing product.

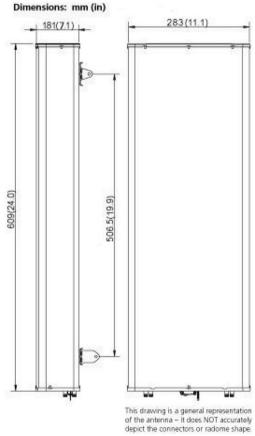


Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

EXTERNAL DOCUMENT LINKS

APM40 Series Installation Instructions



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files