

1485 mm

INTEGRATED RET

OPTIONAL SITE SHARING

APXVLLLL15B2_43-C-I20 APXVLLLL15B2_43-C-I20S

Features

- 8 ports / 4 cross pol systems in high band (1710-2690 MHz)
- Integrated and field replaceable SRET
- Optional with site sharing feature (Model name suffic -C-120S)
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(4x) 1710-2690						
OVERVIEW	Array	■ Y1	■ Y2	■ Y3	Y4			
	Connector	1-2	3-4	5-6	7-8			
		8 PORTS						
	Polarization	XPOL						
PRODUCT	Azimuth Beamwidth (avg)	65°						
PR	Electrical Downtilt	2-12°						
	Dimensions	1485 x 499 x 199 mm (58.5 x 19.6 x 7.8 in)						

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT
APXVLLLL15B2_43-C-I20	ACU-I20-B4 Internal RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	34.6 kg (76.3 lbs)	4.5 kg (9.9 lbs)
APXVLLLL15B2_43-C-I20S	ACU-X20-B4 Internal Site Sharing RET Included	APM50-B1 Beam Tilt Kit Included	50-110 mm (2.0-4.3 in)	34.6 kg (76.3 lbs)	4.5 kg (9.9 lbs)







1485 mm

INTEGRATED RET

OPTIONAL SITE SHARING

APXVLLLL15B2_43-C-I20 APXVLLLL15B2_43-C-I20S

ELECTRIC	CAL SPECIFICATIONS							
Frequency	⁷ Range	MHz	Hz 1710-2690					
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization	n				±45°			
C	Over all Tilts	dBi	16.8 ± 0.5	17.5 ± 0.5	17.7 ± 0.5	18.0 ± 0.1	18.2 ± 0.5	
Gain	Max Gain	dBi	17.3	18.0	18.2	18.1	18.7	
Azimuth Be	eamwidth (3 dB)	degrees	68.1° ± 4.5°	63.9° ± 4.5°	64.1° ± 4.1°	63.6° ± 3.9°	61.0° ± 6.6°	
Elevation Beamwidth (3 dB)		degrees	6.7° ± 0.5°	6.0° ± 0.1°	5.8° ± 0.5°	5.0° ± 0.1°	4.8° ± 0.5°	
Electrical D	Downtilt	degrees	2-12°					
Impedance	e	Ohms	50Ω					
VSWR (Ret	turn Loss)				1.5:1 (-14 dB)			
	ermodulation for 2x20 W Carriers	dBc			-150			
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	22	23	24	24	20	
First Uppe	r Side Lobe Suppression	dB	19	18	18	19	17	
Cross Polar Discrimination Over Sector		dB	15	15	15	12.2	10	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	24	27	27	27	20	
Maximum	Effective Power Per Port	Watts	250 W					
Cross Pola	ır Isolation	dB			28			
		l n	22					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

Interband Isolation

Y2

28

Frequency R	ange	MHz	1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization				±45°					
C	Over all Tilts	dBi	16.9 ± 0.5	17.7 ± 0.5	17.9 ± 0.5	18.0 ± 0.1	18.0 ± 0.1		
Gain	Max Gain	dBi	17.4	18.2	18.4	18.1	18.1		
Azimuth Bea	nmwidth (3 dB)	degrees	67.0° ± 8.1°	58.0° ± 4.9°	55.5° ± 5.5°	63.5° ± 2.0°	60.4° ± 5.5°		
Elevation Be	amwidth (3 dB)	degrees	6.8° ± 0.5°	6.0° ± 0.1°	5.8° ± 0.5°	5.0° ± 0.1°	4.7° ± 0.5°		
Electrical Do	wntilt	degrees			2-12°				
Impedance		Ohms	50Ω						
VSWR (Retur	rn Loss)		1.5:1 (-14 dB)						
Passive Inter 3rd Order fo	modulation or 2x20 W Carriers	dBc	-150						
Front-to-Bac	k Ratio, Total Power, ± 30°	dB	23	25	24	24	20		
First Upper S	Side Lobe Suppression	dB	18	17	16.1	18	14		
Cross Polar [Discrimination Over Sector	dB	17	16	17	15	8		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23.9	24	25	26.1	19		
Maximum Ef	fective Power Per Port	Watts	250 W						
Cross Polar I	solation	dB	28						
Interband Iso	olation	dB	28						

Specifications follow BASTA guidelines.



1485 mm

INTEGRATED RET

OPTIONAL SITE SHARING

APXVLLLL15B2_43-C-I20 APXVLLLL15B2_43-C-I20S

ELECTRI	ICAL SPECIFICATIONS		■ Y3						
Frequency	y Range	MHz	MHz 1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarizatio	on				±45°				
	Over all Tilts	dBi	17.0 ± 1.0	17.8 ± 0.5	18.0 ± 0.1	18.0 ± 0.1	18.1 ± 0.5		
Gain	Max Gain	dBi	18.0	18.3	18.1	18.1	18.6		
Azimuth B	Beamwidth (3 dB)	degrees	66.5° ± 7.5°	57.8° ± 4.5°	56.0° ± 5.0°	63.5° ± 2.5°	60.6° ± 5.1°		
Elevation I	Elevation Beamwidth (3 dB)		6.8° ± 0.5°	6.1° ± 0.1°	5.8° ± 0.5°	5.0° ± 0.1°	4.7° ± 0.5°		
Electrical [Downtilt	degrees	2-12°						
Impedanc	ce	Ohms	50Ω						
VSWR (Re	turn Loss)				1.5:1 (-14 dB)				
	termodulation for 2x20 W Carriers	dBc			-150				
Front-to-B	Back Ratio, Total Power, ± 30°	dB	24	24.9	24	23.6	22		
First Uppe	er Side Lobe Suppression	dB	19	17	17	20	17.4		
Cross Polar Discrimination Over Sector		dB	17	16	16.5	14	9		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23	24	24	28	21		
Maximum	Effective Power Per Port	Watts	250 W						
Cross Pola	ar Isolation	dB			28				

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

Interband Isolation

dB

	/Δ

28

Frequency R	ange	MHz		1710-2690					
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization				±45°					
C	Over all Tilts	dBi	17.0 ± 0.1	17.7 ± 0.5	17.8 ± 0.5	18.0 ± 0.1	18.2 ± 0.5		
Gain	Max Gain	dBi	17.1	18.2	18.3	18.1	18.7		
Azimuth Bea	nmwidth (3 dB)	degrees	67.7° ± 5.1°	63.6° ± 4.6°	63.5° ± 4.0°	64.2° ± 3.0°	61.0° ± 5.0°		
Elevation Be	amwidth (3 dB)	degrees	6.7° ± 0.5°	6.0° ± 0.1°	5.8° ± 0.5°	5.0° ± 0.1°	4.8° ± 0.5°		
Electrical Do	wntilt	degrees			2-12°				
Impedance	Impedance		50Ω						
VSWR (Retur	rn Loss)		1.5:1 (-14 dB)						
Passive Inter 3rd Order fo	modulation or 2x20 W Carriers	dBc	-150						
Front-to-Bac	k Ratio, Total Power, ± 30°	dB	23	25	24	23	20		
First Upper S	Side Lobe Suppression	dB	18	17	17	18	16		
Cross Polar [Discrimination Over Sector	dB	15	13	14	14	9		
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	23	24	23	24	21		
Maximum Ef	fective Power Per Port	Watts	250 W						
Cross Polar I	solation	dB	28						
Interband Iso	olation	dB	28						

Specifications follow BASTA guidelines.



1485 mm

INTEGRATED RET OPTIONAL SITE SHARING

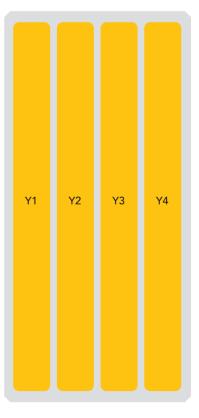
APXVLLLL15B2_43-C-I20 APXVLLLL15B2_43-C-I20S

BOTTOM VIEW - LABELING



ARRAY LAYOUT

	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
	■ Y1	1710-2690 MHz	1-2	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxxx-Y1
	■ Y2	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxx-Y2
	■ Y3	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxxx-Y3
-	■ Y4	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y4	RFxxxxxxxxx-Y4



The illustration is not shown to scale.



1485 mm

INTEGRATED RET

OPTIONAL SITE SHARING

APXVLLLL15B2_43-C-I20 APXVLLLL15B2_43-C-I20S

MECHANICAL SPECIFICATIONS

Length		mm (in)	1485 (58.5)		
Width			mm (in)	499 (19.6)	
Depth			mm (in)	199 (7.8)	
Net Weight - Antenna Only		kg (lbs)	24.1 (53.4)		
Wind Load		Front	N (lbf)	494 (111)	
Rated at		Side	N (lbf)	430 (97)	
150 km/h (9	'3 mph)	Rear	N (lbf)	573 (129)	
Survival Wir	nd Speed / Rated	Wind Speed	km/h (mph)	200 (150)	
Connector 7	Гуре			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom	
Radome Co	lor			Light Grey RAL7035	
Radome Material			Fiberglass		
Lightning Protection			Direct Ground		
Shipping Packing Size (Length x Width x Depth)		mm (in)	1730 x 595 x 295 (68.1 x 23.4 x 11.6)		

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



1485 mm

INTEGRATED RET

OPTIONAL SITE SHARING

APXVLLLL15B2_43-C-I20 APXVLLLL15B2_43-C-I20S

ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-110 mm (2.0-4.3 in) Shipped with antenna	APM50-B1	4.5 kg (9.9 lbs)

INSTALLATION Please read all installation notes before installing product.

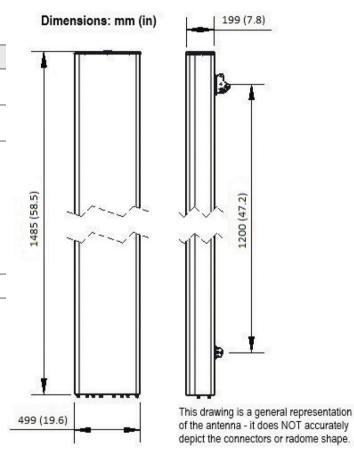


Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

EXTERNAL DOCUMENT LINKS

APM50 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