8-Port Panel Antenna (2x) 690-960 | (2x) 1695-2690 MHz



2498 mm INTEGRATED RET SITE SHARING OPTIONAL

APXVBBLL26H2_43-C-I20

APXVBBLL26H2_43-A-I20, APXVBBLL26H2_43-C-I20S, APXVBBLL26H2_43-A-I20S

65°

Features

- 4 ports / 2 cross pol systems in low band (690-960 MHz)
- 4 ports / 2 cross pol systems in high band (1695-2690 MHz)
- Supports 4x4 MIMO in low band and high band
- Integrated and field replaceable SRET
- Optional with Site Sharing feature (Model name suffix -C-120S, -A-120S
- Optional with Direct Pipe No Tilt mounting hardware (Model name suffix -A-120, -A-120S)
- Compliant with AISG v2.0 and 3GPP
- Optimized radome for low windload



	Frequency Range (MHz)	(2x) 69	90-960	(2x) 1695-2690					
2	Array	R 1	R 2	Y 1	Y 2				
RVIE	Connector	1-2	3-4	5-6	7-8				
OVERVIEW	Connector	8 PORTS							
-	Polarization	XPOL							
PRODUCT	Azimuth Beamwidth (avg)	6	5°	65°					
PR	Electrical Downtilt	2-*	12°	2-12°					
	Dimensions		2498 x 469 x 205 mm	n (98.3 x 18.5 x 8.5 in)					

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT	MOUNTING HARDWARE WEIGHT				
APXVBBLL26H2_43-C-120	ACU-I20-H12J Internal RET Included	APM50-HS Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	48.2 kg (106.3 lbs)	9 kg (19.8 lbs)				
APXVBBLL26H2_43-A-120	ACU-I20-H12J Internal RET Included	APM50-HSN Direct Pipe No Tilt Mounting Kit Included	50-125 mm (2.0-4.9 in)	45.2 kg (99.6 lbs)	6 kg (13.2 lbs)				
APXVBBLL26H2_43-C-120S	ACU-X20H Internal RET for Site Sharing Included	APM50-HS Beam Tilt Kit Included	50-125 mm (2.0-4.9 in)	48.3 kg (106.5 lbs)	9 kg (19.8 lbs)				
APXVBBLL26H2_43-A-120S	ACU-X20H Internal RET for Site Sharing Included	APM50-HSN Direct Pipe No Tilt Mounting Kit Included	50-125 mm (2.0-4.9 in)	45.3 kg (99.9 lbs)	6 kg (13.2 lbs)				







(2x) 690-960 | (2x) 1695-2690 MHz

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R1

APXVBBLL26H2_43-C-I20

APXVBBLL26H2_43-A-I20, APXVBBLL26H2_43-C-I20S, APXVBBLL26H2_43-A-I20S

ELECTRICAL SPECIFICATIONS

Frequency Range		MHz		690-960				
		MHz	690-806 790-894 880-96					
Polarizatio	n			±45°				
Gain	Over all Tilts	dBi	16.2 ± 0.5	16.4 ± 0.4	16.5 ± 0.4			
	Max Gain	dBi	16.7	16.8	16.9			
Azimuth Be	eamwidth (3 dB)	degrees	67.1° ± 6.1°	64.6° ± 5.3°	65.5° ± 5.6°			
Elevation E	Beamwidth (3 dB)	degrees	8.6° ± 0.6°	8° ± 0.5°	7.3° ± 0.5°			
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153					
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	19.1	22.1	23			
First Uppe	r Side Lobe Suppression	dB	14.9	16.8	16			
Cross Pola	r Discrimination Over Sector	dB	13	10.5	8.2			
	r Discrimination (XPD) ical Boresight (0°)	dB	24.5 25.6 27.5					
Maximum	Effective Power Per Port	Watts	250 W					
Cross Polar Isolation		dB	26					
Interband	Isolation	dB	26					

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS R2 690-960 Frequency Range MHz 690-806 790-894 880-960 MHz Polarization ±45° ____ Over all Tilts dBi 16.1 ± 0.3 16.2 ± 0.3 16.3 ± 0.4 Gain Max Gain dBi 16.4 16.5 16.7 $64.1^{\circ} \pm 4.7^{\circ}$ Azimuth Beamwidth (3 dB) $67^{\circ} \pm 4.8^{\circ}$ $65.5^{\circ} \pm 6.1^{\circ}$ degrees Elevation Beamwidth (3 dB) $8.4^{\circ} \pm 0.4^{\circ}$ $7.9^{\circ} \pm 0.4^{\circ}$ $7.3^{\circ} \pm 0.5^{\circ}$ degrees Electrical Downtilt 2-12° degrees Impedance Ohms 500 VSWR (Return Loss) 1.5:1 (-14 dB) Passive Intermodulation dBc -153 3rd Order for 2x20 W Carriers Front-to-Back Ratio, Total Power, ± 30° dB 19.9 22.5 22.4 17.7 14.9 First Upper Side Lobe Suppression dB 16 Cross Polar Discrimination Over Sector dB 13.2 10.5 9.2 Cross Polar Discrimination (XPD) dB 27.1 29.8 25.9 at Mechanical Boresight (0°) Maximum Effective Power Per Port 250 W Watts Cross Polar Isolation dB 26 Interband Isolation dB 26

Specifications follow BASTA guidelines.



(2x) 690-960 | (2x) 1695-2690 MHz

65° 2498 mm INTEGRATED RET SITE SHARING OPTIONAL

Y1

- V2

APXVBBLL26H2_43-C-I20

APXVBBLL26H2_43-A-I20, APXVBBLL26H2_43-C-I20S, APXVBBLL26H2_43-A-I20S

ELECTRICAL SPECIFICATIONS

Frequency Range		MHz			1695-2690			
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
Gain	Over all Tilts	dBi	16.4 ± 0.8	17.3 ± 0.4	17.8 ± 0.8	17.2 ± 0.6	17 ± 0.5	
	Max Gain	dBi	17.2	17.7	18.6	17.8	17.5	
Azimuth Beamwidth (3 dB)		degrees	68.3° ± 5°	62.1° ± 4.7°	61.7° ± 4.5°	60.3° ± 5.9°	59.9° ± 5.1°	
Elevation E	Beamwidth (3 dB)	degrees	$6.4^{\circ} \pm 0.4^{\circ}$	6° ± 0.2°	5.8° ± 0.4°	5.3° ± 0.4°	4.8° ± 0.3°	
Electrical D	Downtilt	degrees			2-12°			
Impedance		Ohms	50Ω					
VSWR (Return Loss)			1.5:1 (-14 dB)					
	ermodulation for 2x20 W Carriers	dBc			-153			
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	25.8	25.4	25.8	26.4	26.9	
First Uppe	r Side Lobe Suppression	dB	14.9	17.7	17.2	17.4	18.3	
Cross Pola	r Discrimination Over Sector	dB	5.1	6.4	3	1.3	0.5	
	r Discrimination (XPD) ical Boresight (0°)	dB	17.3	18.2	15.6	11.7	17.2	
Maximum	Effective Power Per Port	Watts	250 W					
Cross Polar Isolation		dB	26					
Interband Isolation		dB			28			

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

ELECTRICA	AL SPECIFICATIONS		<u> </u>					
Frequency Range		MHz			1695-2690			
		MHz	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization					±45°	•		
Cain	Over all Tilts	dBi	16.5 ± 0.8	17.4 ± 0.4	17.9 ± 0.7	17.2 ± 0.6	17 ± 0.7	
Gain	Max Gain	dBi	17.3	17.8	18.6	17.8	17.7	
Azimuth Beamwidth (3 dB)		degrees	67.8° ± 5.1°	62° ± 3.7°	61.8° ± 3.6°	61.1° ± 6.7°	59.3° ± 5°	
Elevation Beamwidth (3 dB)		degrees	$6.4^{\circ} \pm 0.4^{\circ}$	5.9° ± 0.2°	5.8° ± 0.3°	5.2° ± 0.4°	4.8° ± 0.3°	
Electrical Do	wntilt	degrees			2-12°			
Impedance		Ohms	50Ω					
VSWR (Retur	rn Loss)		1.5:1 (-14 dB)					
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153					
Front-to-Bac	k Ratio, Total Power, ± 30°	dB	26.5	24.5	25.4	26.6	27.3	
First Upper S	Side Lobe Suppression	dB	13.1	17.3	16.9	18.3	18.9	
Cross Polar [Discrimination Over Sector	dB	4.5	7	3.2	1.7	0.4	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	17.7	20.1	16.4	12.2	17.9	
Maximum Effective Power Per Port W			250 W					
Cross Polar Isolation		dB	26					
Interband Isc	olation	dB			28			

Specifications follow BASTA guidelines.



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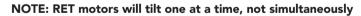
APXVBBLL26H2_43-A-I20, APXVBBLL26H2_43-C-I20S, APXVBBLL26H2_43-A-I20S

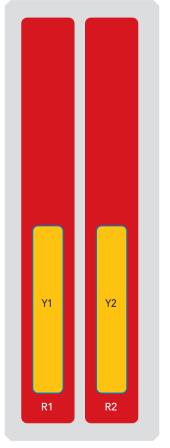
BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
R 1	690-960 MHz	1-2	(2x) 4.3-10 Female	R1	RFxxxxxxxxxR1
R 2	690-960 MHz	3-4	(2x) 4.3-10 Female	R2	RFxxxxxxxxxxxR2
– Y1	1695-2690 MHz	5-6	(2x) 4.3-10 Female	Y1	RFxxxxxxxxx-Y1
Y 2	1695-2690 MHz	7-8	(2x) 4.3-10 Female	Y2	RFxxxxxxxxx-Y2





The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			mm (in)	2498 (98.3)	
Width			mm (in)	469 (18.5)	
Depth	Depth			205 (8.5)	
Net Weight	: - Antenna Only		kg (lbs)	32.2 (71)	
		Frontal, Resultant	N (lbf)	693 (156)	
Wind Load	-	Side, Resultant	N (lbf)	720 (162)	
Rated at		Rear, Resultant	N (lbf)	723 (163)	
150 km/h (9		Maximum, Resultant	N (lbf)	1153 (259)	
		Maximum, Drag Force	N (lbf)	916 (206)	
Survival Wir	nd Speed / Ratec	Wind Speed	km/h (mph)	200 (150)	
Connector	Туре			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom Site Sharing: (4x) AISG Connectors (2 Male, 2 Female) at Bottom	
Radome Color				Light Grey RAL7035	
Radome Material				Fiberglass	
Lightning Protection				Direct Ground	
Shipping Packing Size (Length x Width x Depth)		mm (in)	2698 x 544 x 330 (106.2 x 21.4 x 13)		
	1			1	

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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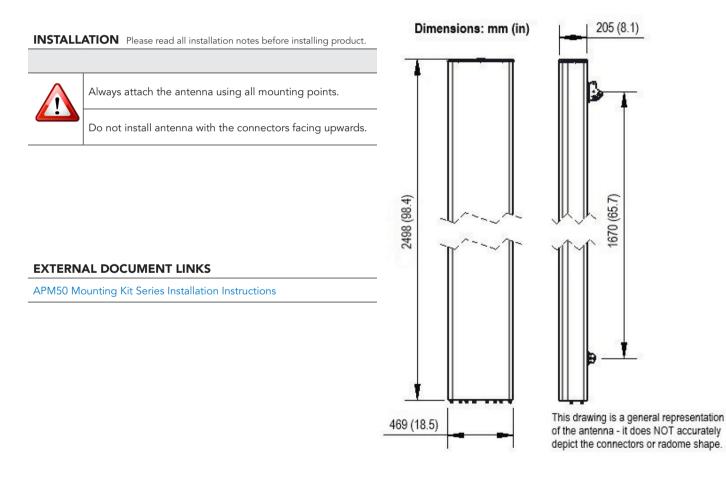
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) Refer to ordering options	APM50-HS	9 kg (19.8 lbs)
Direct Pipe No Tilt Bracket Kit for Pole Diameter 50-125 mm (2.0-4.9 in) Refer to ordering options	APM50-HSN	6 kg (13.2 lbs)



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files