

8-Port Panel Antenna

(4x) 1710-2690 MHz

33° 2460 mm INTEGRATED RET

APXV34L24AS_43-C-I20

Features

- Twin beam antenna
- 8 ports / 4 cross pol systems in high band (1710-2690 MHz)
- Integrated and field replaceable SRET
- ACU HW Version: 2.02
- Compliant with AISG v2.0 and 3GPP



	Frequency Range (MHz)	(4x) 1710-2690								
PRODUCT OVERVIEW	Array	<mark> </mark> Y1	Y 2	Y 3	<mark> </mark>					
	Connector	1-2	3-4	5-6	7-8					
		8 PORTS								
	Polarization	XPOL								
	Azimuth Beamwidth (avg)	33°								
₽.	Electrical Downtilt	2-12°								
	Dimensions	2460 x 396 x 160 mm (96.9 x 15.6 x 6.3 in)								

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
APXV34L24AS_43-C-120	ACU-120-B4 Internal RET Included	APM50-W5 Included	50-115 mm (2.0-4.5 in)	46.8 kg (103.2 lbs)





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Y1

APXV34L24AS_43-C-I20

ELECTRICAL SPECIFICATIONS

		_ ···						
Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarization	1				±45°			
<u> </u>	Over all Tilts	dBi	18.1 ± 1	18.3 ± 0.5	19.2 ± 1	18.9 ± 1	19.3 ± 0.5	
Gain	Max Gain	dBi	19.1	18.8	20.2	19.9	19.8	
Azimuth Be	amwidth (3 dB)	degrees	40.7° ± 2.7°	38.1° ± 1.4°	34.3° ± 2.5°	31.3° ± 1.5°	29.7° ± 1°	
Elevation B	eamwidth (3 dB)	degrees	8° ± 0.1°	7.5° ± 0.5°	6.9° ± 0.5°	6.1° ± 1°	5.9° ± 0.5°	
Electrical D	owntilt	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	ick Ratio, Total Power, ± 30°	dB	23	23	22	21.4	21	
First Upper	Side Lobe Suppression	dB	18.9	19	19.4	20	22.6	
Cross Polar	Discrimination Over Sector	dB	9	8.9	7	4	2	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21	21.3	9.5	5	9	
Maximum Effective Power Per Port W		Watts	250 W					
Cross Polar	Isolation	dB	28					
Beam Isolat	tion	dB			28			

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

ELECTRI	CAL SPECIFICATIONS				<mark> </mark>			
Frequency	r Range	MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
Gain	Over all Tilts	dBi	17.7 ± 0.5	18 ± 0.1	18.8 ± 1	18.1 ± 1	18.7 ± 0.5	
Gain	Max Gain	dBi	18.2	18.1	19.8	19.1	19.2	
Azimuth B	eamwidth (3 dB)	degrees	40.7° ± 2°	38.2° ± 1.5°	34.4° ± 2.4°	31.4° ± 0.6°	29.8° ± 1.1°	
Elevation I	Beamwidth (3 dB)	degrees	7.9° ± 0.5°	7.4° ± 0.5°	7° ± 0.1°	6.3° ± 0.5°	6° ± 0.1°	
Electrical Downtilt		degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Ret	turn Loss)		1.5:1 (-14 dB)					
	termodulation for 2x20 W Carriers	dBc	-153					
Front-to-B	ack Ratio, Total Power, ± 30°	dB	23	22.5	20	20.1	20	
First Uppe	r Side Lobe Suppression	dB	20	21	22.7	19.4	20	
Cross Pola	ar Discrimination Over Sector	dB	7.8	8	7	5	1.9	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	21.6	23.8	8.6	5	7	
Maximum Effective Power Per Port		Watts	250 W					
Cross Polar Isolation		dB	28					
Beam Isola	ation	dB			28			

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Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
Gain	Over all Tilts	dBi	17.7 ± 0.5	18 ± 0.1	18.8 ± 1	17.9 ± 1	18.5 ± 0.5	
Gain	Max Gain	dBi	18.2	18.1	19.8	18.9	19	
Azimuth B	eamwidth (3 dB)	degrees	40.8° ± 2°	38.2° ± 2°	34.2° ± 2.5°	31.3° ± 1°	29.5° ± 1.5°	
Elevation I	Beamwidth (3 dB)	degrees	8.1° ± 0.5°	7.6° ± 0.5°	7° ± 0.9°	6.3° ± 0.5°	6° ± 1°	
Electrical [Downtilt	degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Ret	turn Loss)		1.5:1 (-14 dB)					
	termodulation for 2x20 W Carriers	dBc	-153					
Front-to-B	ack Ratio, Total Power, ± 30°	dB	21.8	23	20.2	20	20	
First Uppe	r Side Lobe Suppression	dB	20	20.9	22	18.1	19	
Cross Pola	ar Discrimination Over Sector	dB	8.3	8	5.8	3.2	0.6	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	20	20.8	9.2	6.6	7.8	
Maximum Effective Power Per Port		Watts	250 W					
Cross Pola	ar Isolation	dB	28					
Beam Isola	ation	dB			28			

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ELECTRICAL SPECIFICATIONS

ELECTRI	CAL SPECIFICATIONS				<mark> </mark>			
Frequency	r Range	MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
Gain	Over all Tilts	dBi	18.3 ± 1	18.5 ± 0.5	19.3 ± 1	19 ± 1	19.4 ± 0.5	
Gain	Max Gain	dBi	19.3	19	20.3	20	19.9	
Azimuth B	eamwidth (3 dB)	degrees	$40.4^{\circ} \pm 2.5^{\circ}$	38.1° ± 1.5°	34.4° ± 2.6°	31.2° ± 1.5°	29.5° ± 1.4°	
Elevation E	Beamwidth (3 dB)	degrees	8° ± 0.1°	7.5° ± 0.5°	6.9° ± 0.5°	6.2° ± 1°	6° ± 0.2°	
Electrical D	Downtilt	degrees	2-12°					
Impedance		Ohms	50Ω					
VSWR (Ret	turn Loss)		1.5:1 (-14 dB)					
	termodulation for 2x20 W Carriers	dBc	-153					
Front-to-B	ack Ratio, Total Power, ± 30°	dB	23.2	21.6	21.9	20.8	20	
First Uppe	r Side Lobe Suppression	dB	19.6	20	20.3	22.2	20	
Cross Pola	ar Discrimination Over Sector	dB	8.9	9	7.3	4	2	
Cross Polar Discrimination (XPD) at Mechanical Boresight (0°)		dB	19	19	10.5	6.5	10	
Maximum Effective Power Per Port		Watts	250 W					
Cross Polar Isolation		dB	28					
Beam Isola	ation	dB			28			

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BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE	RET	AISG RET UID
<mark> </mark> Y1	1710-2690 MHz	1-2	(2x) 4.3-10 Female	Y1	RFxxxxxxxxxxxY1
Y 2	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxxx-Y2
Y 3	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxxXXX
Y 4	1710-2690 MHz	7-8	(2x) 4.3-10 Female	Y4	RFxxxxxxxxxx-Y4



The illustration is not shown to scale.



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MECHANICAL SPECIFICATIONS

Length			mm (in)	2460 (96.9)
Width			mm (in)	396 (15.6)
Depth			mm (in)	160 (6.3)
Net Weight	: - Antenna Only		kg (lbs)	34 (75)
Net Weight	: - Mounting Har	dware Only	kg (lbs)	7 (15.4)
Wind Load	Wind Load Front		N (lbf)	847 (190)
Rated at		Side	N (lbf)	424 (95)
150 km/h (9	23 mph)	Rear	N (lbf)	1188 (267)
Survival Wir	nd Speed / Rated	d Wind Speed	km/h (mph)	200 (150)
Connector -	Туре			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom
Radome Co	olor			Light Grey RAL7035
Radome Material			Fiberglass	
Lightning Protection			Direct Ground	
China in a	Packing Size (Length x Width x Depth)		mm (in)	2747 x 520 x 294 (108.1 x 20.5 x 11.6)
Shipping	Shipping Weig	ht	kg (lbs)	46.8 (103.2)
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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	



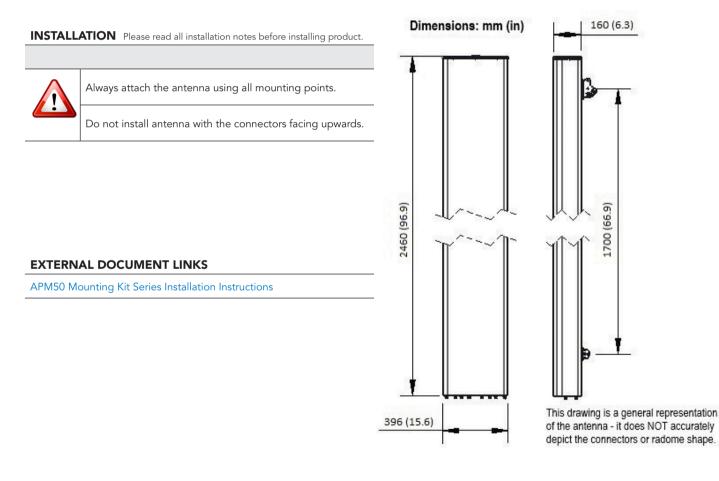
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-115 mm (2.0-4.5 in) Shipped with antenna	APM50-W5	7 kg (15.4 lbs)



NOTES

Specifications follow BASTA guidelines.

Inter-distance between both clamps of 8-port twin beam: < 1.8m

For additional mounting information, please check External Document Links.

For Radiating Patterns: Request pattern files