

# 8-Port Panel Antenna

(4x) 1710-2690 MHz

33° 2690 mm INTEGRATED RET

# APXV34L24AV\_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								
JCT OVERVIEW	Array	<mark> </mark> Y1	<b>Y</b> 2	<b>Y</b> 3	<mark> </mark>					
	Connector	1-2	3-4	5-6	7-8					
		8 PORTS								
	Polarization	XPOL								
PRODUCT	Azimuth Beamwidth (avg)	33°								
₽.	Electrical Downtilt	0-10°								
	Dimensions	2690 x 396 x 160 mm (105.9 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
APXV34L24AV_43-C-120	ACU-120-B4 Internal RET Included	APM50-W5 Included	50-115 mm (2.0-4.5 in)	49.2 kg (108.5 lbs)





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## **ELECTRICAL SPECIFICATIONS**

ELECTRIC	CAL SPECIFICATIONS				<mark> </mark>				
Frequency	Range	MHz	MHz 1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarization	n				±45°		·		
Gain	Over all Tilts	dBi	18.4 ± 0.9	18.9 ± 0.6	19.1 ± 1.1	18.5 ± 1.1	18.6 ± 1		
	Max Gain	dBi	19.3	19.5	20.2	19.6	19.6		
Azimuth Be	eamwidth (3 dB)	degrees	40.6° ± 2.5°	37.1° ± 1.5°	34.8° ± 2.6°	31.7° ± 1°	29° ± 1.3°		
Elevation Beamwidth (3 dB)		degrees	$7.6^{\circ} \pm 0.6^{\circ}$	7.1° ± 0.5°	6.7° ± 0.9°	5.8° ± 0.7°	5.4° ± 0.7°		
Electrical Downtilt		degrees	0-10°						
Impedance		Ohms	50Ω						
VSWR (Ret	urn Loss)		1.5:1 (-14 dB)						
	ermodulation for 2x20 W Carriers	dBc	-153						
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	21.1	21.9	21.3	21.4	21.4		
First Upper Side Lobe Suppression		dB	13.9	14.4	14.9	15.6	17.2		
Maximum Effective Power Per Port Wat		Watts	250 W						
Cross Polar Isolation		dB	28						
Beam Isola	ation	dB			28				

Specifications follow BASTA guidelines.

**V**2

### ELECTRICAL SPECIEICATIONS

ELECTRICAL SPECIFICATIONS					Y2			
Frequency Range		MHz			1710-2690			
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690	
Polarizatio	n				±45°			
Gain	Over all Tilts	dBi	17.9 ± 0.9	18.3 ± 0.7	18.3 ± 1	17.8 ± 1.1	18.1 ± 1	
Gain	Max Gain	dBi	18.8	19	19.3	18.9	19.1	
Azimuth Beamwidth (3 dB)		degrees	40.5° ± 2.2°	36.9° ± 1.2°	34.7° ± 2.3°	31.6° ± 1.1°	29.2° ± 0.9°	
Elevation Beamwidth (3 dB)		degrees	7.6° ± 0.7°	7.1° ± 0.6°	6.7° ± 0.9°	5.7° ± 0.5°	5.4° ± 0.7°	
Electrical Downtilt		degrees	0-10°					
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	20.9	20.9	20.9	21.4	21.3	
First Upper Side Lobe Suppression		dB	14.7	15.2	15.8	17.1	17.9	
Maximum Effective Power Per Port		Watts	250 W					
Cross Polar Isolation		dB	28					
Beam Isola	ation	dB			28			

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## **ELECTRICAL SPECIFICATIONS**

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Frequency	Range	MHz	MHz 1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarizatio	n				±45°				
Gain	Over all Tilts	dBi	18 ± 0.9	18.3 ± 0.7	18.3 ± 1.1	17.9 ± 1.1	18.1 ± 1.1		
	Max Gain	dBi	18.9	19	19.4	19	19.2		
Azimuth Be	eamwidth (3 dB)	degrees	40.2° ± 2.2°	36.8° ± 1.5°	34.6° ± 2.3°	31.6° ± 1.2°	28.9° ± 1.2°		
Elevation Beamwidth (3 dB)		degrees	7.6° ± 0.5°	7.1° ± 0.5°	6.7° ± 0.8°	5.7° ± 0.5°	5.4° ± 0.7°		
Electrical Downtilt		degrees	0-10°						
Impedance	e	Ohms	50Ω						
VSWR (Ret	turn Loss)		1.5:1 (-14 dB)						
	ermodulation for 2x20 W Carriers	dBc	-153						
Front-to-Ba	ack Ratio, Total Power, ± 30°	dB	21.7	21.7	21.7	20.8	21.5		
First Upper Side Lobe Suppression		dB	14.5	14.6	15.4	16.7	17.7		
Maximum Effective Power Per Port Wat		Watts	250 W						
Cross Polar Isolation		dB	28						
Beam Isola	ation	dB			28				

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#### **ELECTRICAL SPECIFICATIONS**

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Frequency	/ Range	MHz	MHz 1710-2690						
		MHz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690		
Polarizatio	n				±45°				
Cain	Over all Tilts	dBi	18.5 ± 0.9	19 ± 0.7	19.2 ± 1.1	18.7 ± 1.3	18.7 ± 1.1		
Gain	Max Gain	dBi	19.4	19.7	20.3	20	19.8		
Azimuth B	eamwidth (3 dB)	degrees	40.4° ± 2.2°	37° ± 1.4°	34.6° ± 2.8°	31.6° ± 1.3°	28.9° ± 1.5°		
Elevation Beamwidth (3 dB)		degrees	7.6° ± 0.6°	7.1° ± 0.5°	6.7° ± 0.8°	5.8° ± 0.6°	5.4° ± 0.7°		
Electrical Downtilt		degrees	0-10°						
Impedance	e	Ohms	50Ω						
VSWR (Ret	turn Loss)		1.5:1 (-14 dB)						
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	-153						
Front-to-B	ack Ratio, Total Power, ± 30°	dB	21.8	21.4	21.4	21.9	22.4		
First Upper Side Lobe Suppression		dB	14.8	14.7	15.3	16.6	17		
Maximum Effective Power Per Port		Watts	250 W						
Cross Polar Isolation		dB	28						
Beam Isola	ation	dB			28				

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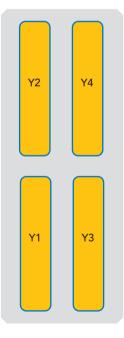
# APXV34L24AV\_43-C-I20

## **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
<b>Y</b> 2	1710-2690 MHz	3-4	(2x) 4.3-10 Female	Y2	RFxxxxxxxxxxx-Y2
<b>Y</b> 3	1710-2690 MHz	5-6	(2x) 4.3-10 Female	Y3	RFxxxxxxxxxxXXX
<b>Y</b> 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)	2690 (105.9)
Width			mm (in)	396 (15.6)
Depth			mm (in)	160 (6.3)
Net Weight	- Antenna Only		kg (lbs)	36.3 (80)
Net Weight	- Mounting Har	dware Only	kg (lbs)	7 (15.4)
Wind Load	Wind Load Front		N (lbf)	926 (208)
Rated at		Side	N (lbf)	464 (104)
150 km/h (9	3 mph)	Rear	N (lbf)	1299 (292)
Survival Wir	nd Speed / Rated	d Wind Speed	km/h (mph)	200 (150)
Connector -	Гуре			(8x) 4.3-10 Female, (2x) AISG Connectors (1 Male, 1 Female) at Bottom
Radome Co	lor			Light Grey RAL7035
Radome Ma	aterial			Fiberglass
Lightning Protection			Direct Ground	
China in a	Packing Size (L	ength x Width x Depth)	mm (in)	2980 x 520 x 294 (117.3 x 20.5 x 11.6)
Shipping	Shipping Weig	ht	kg (lbs)	49.2 (108.5)

### **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	



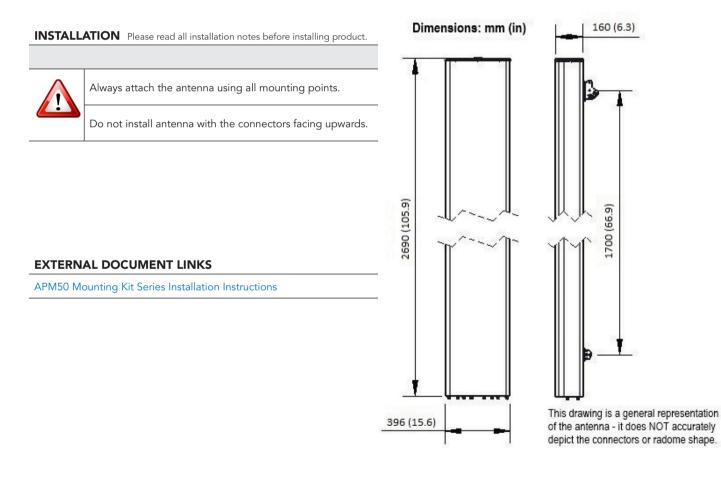
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ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	MODEL NUMBER	WEIGHT
Beam Tilt Mounting Bracket Kit for Pole Diameter 50-115 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