

## PRODUCT DATASHEET

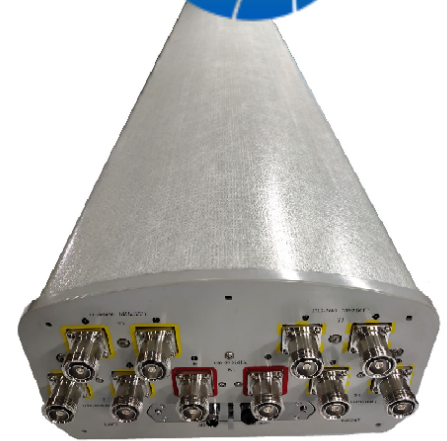
### APXVB4L26B\_43-C-I20, -I20S

10-Ports, X-Pol, Panel Antenna, 2.6m, 2x 698-960/4x 1710-2690MHz, 65deg, Integrated RET, Site Sharing Optional



#### FEATURES / BENEFITS

- 2 ports / 1 cross pol system in low band (698-960MHz)
- 8 ports / 4 cross pol systems in high band (1710-2690MHz)
- Integrated and field replaceable SRET
- Optional with Site Sharing feature (Model name Suffix -I20S)
- Compliant with AISG V2.0 and 3GPP



## Technical features

#### ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Array (698-960 MHz) [R1]		
Frequency Band	MHz	698-806	790-894	880-960
Gain Typical	dBi	16.3	17.1	17.1
Gain Over all Tilts	dBi	16 +/- 0.3	16.6 +/- 0.5	16.6 +/- 0.5
Azimuth Beamwidth 3dB	Deg	66.3 +/- 1.4	64.3 +/- 1.8	64.1 +/- 1.3
Elevation Beamwidth 3dB	Deg	8.9 +/- 0.7	7.8 +/- 0.6	7.2 +/- 0.3
Cross Polar Discrimination at Boresight	dB	23.4	24.6	25.7
Cross Polar Discrimination over Sector	dB	12.1	9	10.6
F/B at +/-30deg Total Power	dB	23.8	25.7	25.4
First Upper Side Lobe Suppression	dB	21.7	19.1	16.4
Electrical Downtilt	Deg	2 to 11		
Cross Polar Isolation	dB	26		
Interband Isolation	dB	26		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150		
Maximum Effective Power per Port	Watt	350		

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**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y1]				
<b>Frequency Band</b>	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
<b>Gain Typical</b>	dBi	16.4	16.7	17.8	17.2	18
<b>Gain Over all Tilts</b>	dBi	15.9 +/- 0.5	16.3 +/- 0.4	17.1 +/- 0.7	16.8 +/- 0.4	17.3 +/- 0.7
<b>Azimuth Beamwidth 3dB</b>	Deg	62.1 +/- 3.5	63.7 +/- 3.1	63 +/- 5.8	67 +/- 5.6	59 +/- 3.4
<b>Elevation Beamwidth 3dB</b>	Deg	8.1 +/- 0.6	7.7 +/- 0.5	6.8 +/- 0.6	6.1 +/- 0.5	5.4 +/- 0.2
<b>Cross Polar Discrimination at Boresight</b>	dB	25.8	25.6	21.1	12.9	15
<b>Cross Polar Discrimination over Sector</b>	dB	9	8.6	6.3	8.8	6.5
<b>F/B at +/-30deg Total Power</b>	dB	21.4	23	22.3	22.4	22.8
<b>First Upper Side Lobe Suppression</b>	dB	16.5	15.6	14	14.1	15.1
<b>Electrical Downtilt</b>	Deg	2 to 11				
<b>Cross Polar Isolation</b>	dB	26				
<b>Interband Isolation</b>	dB	26				
<b>VSWR</b>	-	1.5				
<b>Passive Intermodulation (3rd Order, 2 x 43dBm)</b>	dBc	-150				
<b>Maximum Effective Power per Port</b>	Watt	250				

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**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y2]				
<b>Frequency Band</b>	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
<b>Gain Typical</b>	dBi	16.5	16.9	17.5	16.8	17.3
<b>Gain Over all Tilts</b>	dBi	15.8 +/- 0.7	16.3 +/- 0.6	16.8 +/- 0.7	16.3 +/- 0.5	16.7 +/- 0.6
<b>Azimuth Beamwidth 3dB</b>	Deg	63.6 +/- 5.4	65.2 +/- 5.1	64.7 +/- 5.7	67.9 +/- 5.1	60.6 +/- 4.3
<b>Elevation Beamwidth 3dB</b>	Deg	6.8 +/- 0.6	6.3 +/- 0.7	5.7 +/- 0.7	5.2 +/- 0.4	4.8 +/- 0.3
<b>Cross Polar Discrimination at Boresight</b>	dB	24.1	24.4	21.7	15.8	16.2
<b>Cross Polar Discrimination over Sector</b>	dB	9.4	8.3	6.4	8.6	6.1
<b>F/B at +/-30deg Total Power</b>	dB	19.7	20.7	22.1	22.4	22.3
<b>First Upper Side Lobe Suppression</b>	dB	17.5	16.6	16.8	17.1	14.8
<b>Electrical Downtilt</b>	Deg	2 to 11				
<b>Cross Polar Isolation</b>	dB	26				
<b>Interband Isolation</b>	dB	26				
<b>VSWR</b>	-	1.5				
<b>Passive Intermodulation (3rd Order, 2 x 43dBm)</b>	dBc	-150				
<b>Maximum Effective Power per Port</b>	Watt	250				

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**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y3]				
<b>Frequency Band</b>	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
<b>Gain Typical</b>	dBi	16.4	16.7	17.8	17.4	18.2
<b>Gain Over all Tilts</b>	dBi	15.8 +/- 0.6	16.2 +/- 0.5	17 +/- 0.8	16.8 +/- 0.6	17.2 +/- 1
<b>Azimuth Beamwidth 3dB</b>	Deg	62.4 +/- 5	64.1 +/- 3.5	63.5 +/- 5.7	66.9 +/- 5.6	59.3 +/- 3.1
<b>Elevation Beamwidth 3dB</b>	Deg	8.2 +/- 0.6	7.7 +/- 0.7	6.8 +/- 0.6	6 +/- 0.4	5.4 +/- 0.3
<b>Cross Polar Discrimination at Boresight</b>	dB	20.7	18.6	18.6	12.7	17.3
<b>Cross Polar Discrimination over Sector</b>	dB	7.5	7.4	6.9	7.8	6.5
<b>F/B at +/-30deg Total Power</b>	dB	20.8	20.4	21.1	22.1	22.2
<b>First Upper Side Lobe Suppression</b>	dB	13.4	13.3	13.4	12.2	13.7
<b>Electrical Downtilt</b>	Deg	2 to 11				
<b>Cross Polar Isolation</b>	dB	26				
<b>Interband Isolation</b>	dB	26				
<b>VSWR</b>	-	1.5				
<b>Passive Intermodulation (3rd Order, 2 x 43dBm)</b>	dBc	-150				
<b>Maximum Effective Power per Port</b>	Watt	250				

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**ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y4]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	16.4	16.9	17.6	16.8	17.4
Gain Over all Tilts	dBi	15.8 +/- 0.6	16.2 +/- 0.7	16.8 +/- 0.8	16.3 +/- 0.5	16.7 +/- 0.7
Azimuth Beamwidth 3dB	Deg	63.9 +/- 6.1	64.8 +/- 5.5	64.5 +/- 4.6	68.2 +/- 4.9	60.9 +/- 3.8
Elevation Beamwidth 3dB	Deg	6.7 +/- 0.5	6.3 +/- 0.6	5.7 +/- 0.7	5.2 +/- 0.4	4.7 +/- 0.3
Cross Polar Discrimination at Boresight	dB	20.6	19.2	19.2	15.7	16.8
Cross Polar Discrimination over Sector	dB	6.4	5.4	5.7	8.9	6.5
F/B at +/-30deg Total Power	dB	20.4	20.6	21.8	22	22.3
First Upper Side Lobe Suppression	dB	17.5	17.5	16.7	17.5	17
Electrical Downtilt	Deg	2 to 11				
Cross Polar Isolation	dB	26				
Interband Isolation	dB	26				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
Maximum Effective Power per Port	Watt	250				

**ELECTRICAL SPECIFICATIONS**

Impedance	Ohm	50
Polarization	Deg	±45°

**MECHANICAL SPECIFICATIONS**

Dimensions - H x W x D	mm (in)	2690 x 350 x 200 (105.9 x 13.8 x 7.9)
Weight (Antenna Only)	kg (lb)	34.5 (76.1)
Packing size- HxWxD	mm (in)	2940 x 445 x 295 (115.7 x 17.5 x 11.6)
Connector type		10 x 4.3-10 female/bottom + 2x AISG connectors (1 male, 1 female), (Site Sharing) 4x AISG connectors (2 male, 2 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

**TESTING AND ENVIRONMENTAL**

Temperature Range	°C (°F)	-40 to 60 (-40 to 140 )
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	200 (150 )
Wind Load @Rated Wind Front	N	1189
Wind Load @Rated Wind Side	N	617
Wind Load @Rated Wind Rear	N	673

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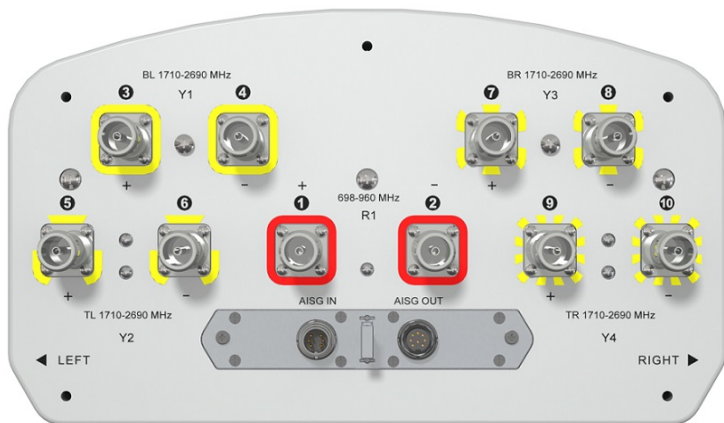
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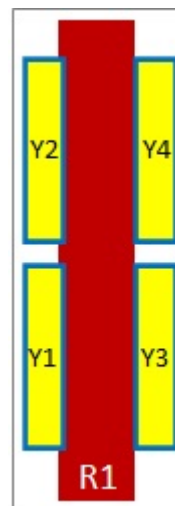
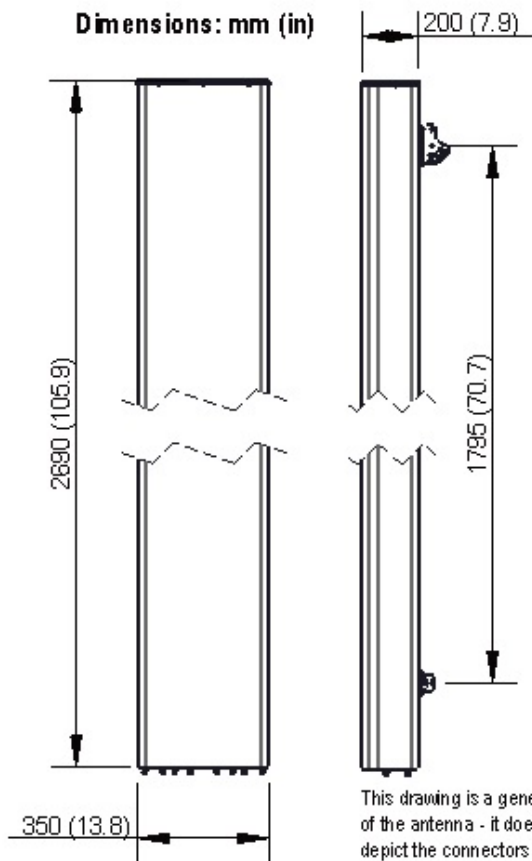


**ORDERING INFORMATION**

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight kg(lb)	Mounting Hardware Weight kg(lb)
<b>APXVB4L26B_43-C-I20</b>	Internal RET(ACU-I20-B5)	APM50-B1	50-110mm	51.5 (113.5)	4.5 (9.9)
<b>APXVB4L26B_43-C-I20S</b>	Internal Site Sharing RET(ACU-X20-B5)	APM50-B1	50-110mm	51.5 (113.5)	4.5 (9.9)



**Dimensions: mm (in)**



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Site Sharing Optional



External Document Links

[APM50\\_Series\\_Installation\\_Instructions](#)

Notes

- All electrical parameters are compliant with BASTA NGMN 11.1 requirements.
- For additional mounting information please click "External Document Links".
- **Radiating patterns:** [Request pattern files](#)