



8-Port Panel Antenna, 2 Ports in Low Band & 6 Ports in High Bands.

FEATURES / BENEFITS

- Cross polarized antenna with 8 ports, 1x880-960/3x1710-2170, for complex system configurations and maximum flexibility
- High suppression of upper sidelobes-- reduces cell interference
- Quick and easy to install-- reduces installation time and costs
- High reliability-- designed to last in a tower top environment
- SRET -Field replaceable / ACU HW Version -2.02 / SW Version -2.72



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		LOW BAND ARRAY (880-960 MHZ) [R1]
Frequency Band	MHz	880-960
Gain Typical	dBi	15.9
Gain Over all Tilts	dBi	15.3 +/- .6
Azimuth Beamwidth 3dB	Deg	68.3 +/- 4.8
Elevation Beamwidth 3dB	Deg	9.5 +/- .4
Cross Polar Discrimination at Boresight	dB	24.7
Cross Polar Discrimination over Sector	dB	7.2
F/B at +/-30deg Total Power	dB	23.4
First Upper Side Lobe Suppression	dB	20.4
Electrical Downtilt	Deg	0 to 10
Cross Polar Isolation	dB	28
Interband Isolation	dB	28
VSWR	-	1.5
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153
Maximum Effective Power per Port	Watt	350



ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2170 MHZ) [B1]		
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170
Gain Typical	dBi	17.1	17.4	17.7
Gain Over all Tilts	dBi	16.2 +/- .9	16.5 +/- .9	16.7 +/- 1
Azimuth Beamwidth 3dB	Deg	70.7 +/- 5.2	69.9 +/- 2.9	67.1 +/- 4.1
Elevation Beamwidth 3dB	Deg	6.8 +/- .6	6.8 +/- .6	6.1 +/- .6
Cross Polar Discrimination at Boresight	dB	17.6	17.6	17.3
Cross Polar Discrimination over Sector	dB	14.3	14.3	11.3
F/B at +/-30deg Total Power	dB	25	25.2	26.7
First Upper Side Lobe Suppression	dB	15.8	15.8	15.1
Electrical Downtilt	Deg	0 to 10		
Cross Polar Isolation	dB	28		
Interband Isolation	dB	28		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153		
Maximum Effective Power per Port	Watt	250		

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2170 MHZ) [B2]		
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170
Gain Typical	dBi	17.1	17.5	18
Gain Over all Tilts	dBi	16.3 +/- .8	16.7 +/- .8	17 +/- 1
Azimuth Beamwidth 3dB	Deg	63.3 +/- 4.2	58.2 +/- 4.1	57.7 +/- 3
Elevation Beamwidth 3dB	Deg	6.9 +/- .5	6.5 +/- .4	6.1 +/- .5
Cross Polar Discrimination at Boresight	dB	23.6	25.3	25.2
Cross Polar Discrimination over Sector	dB	13.5	8.9	4.1
F/B at +/-30deg Total Power	dB	23	22.1	23.6
First Upper Side Lobe Suppression	dB	16.3	16.9	16.8
Electrical Downtilt	Deg	0 to 10		
Cross Polar Isolation	dB	28		
Interband Isolation	dB	28		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153		
Maximum Effective Power per Port	Watt	250		



ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2170 MHZ) [B3]		
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170
Gain Typical	dBi	17	17.8	17.9
Gain Over all Tilts	dBi	16.2 +/- .8	16.8 +/- 1	17 +/- .9
Azimuth Beamwidth 3dB	Deg	64.3 +/- 3.7	60.3 +/- 4	58 +/- 2.9
Elevation Beamwidth 3dB	Deg	6.6 +/- .4	6.2 +/- .4	5.9 +/- .5
Cross Polar Discrimination at Boresight	dB	17.1	18.1	16.7
Cross Polar Discrimination over Sector	dB	6.3	6.3	5.4
F/B at +/-30deg Total Power	dB	21.6	23	22.3
First Upper Side Lobe Suppression	dB	14.6	14.9	15
Electrical Downtilt	Deg	0 to 10		
Cross Polar Isolation	dB	28		
Interband Isolation	dB	28		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153		
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)	1976 x 428 x 145 (77.8 x 16.9 x 5.7)
Weight (Antenna Only)	kg (lb)	25.9 (57.1)
Packing size- HxWxD	mm (in)	2250 x 523 x 240 (88.6 x 20.6 x 9.4)
Shipping Weight	kg (lb)	34.9 (76.9)
Connector type		8 x 7/16 DIN female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiber Glass / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 65 (-40 to 149)
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	220 (150)
Wind Load @Rated Wind Front	N	1038
Wind Load @Rated Wind Side	N	352
Wind Load @Rated Wind Rear	N	1084

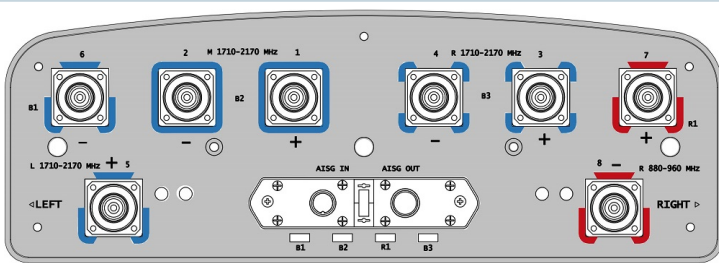
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVGRRR20B-C-I20	Integrated RET(ACU-I20-B4)	APM50-B1	50-110mm	34.9 Kg

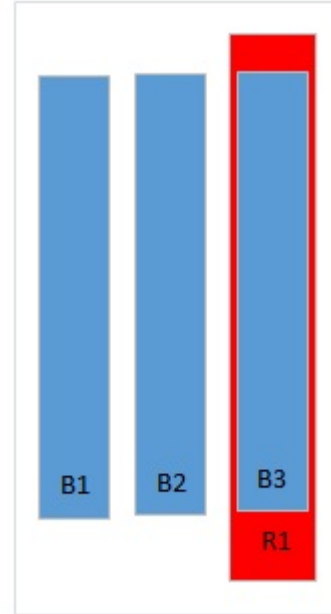
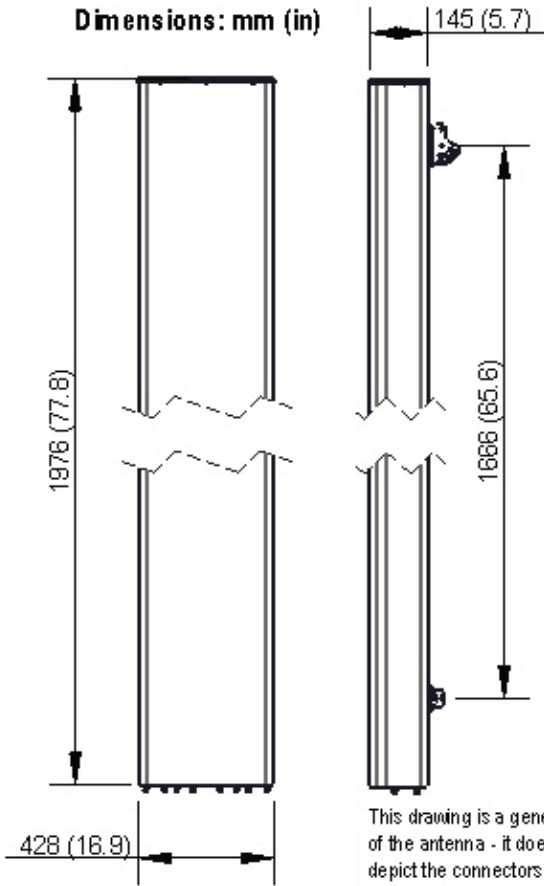


APXVGRRR20B-C-I20

8-Ports, X-Pol, Panel Antenna, 2.0m, 1x880-960/3x1710-2170MHz, 65deg, Integrated RET



Dimensions: mm (in)



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](#)