



APXVBLL09B_43-C-I20

Triple band X-pol Antenna, 698-960/1710-2690/1710-2690MHz, 65deg, 13.1/16.2/16.4dBi, 0.9m, 2-15/2-12deg, Integrated RET

FEATURES / BENEFITS

- 2 ports / 1 cross pol system in low band (698-960MHz)
- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- Supporting 4x4 MIMO in high band
- Integrated and field replaceable SRET
- ACU HW Version -2.02 / SW Version -2.72
- 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	12.9	13.1	13
Gain Over all Tilts	dBi	12.4 +/- 0.5	12.6 +/- 0.5	12.9 +/- 0.1
Azimuth Beamwidth 3dB	Deg	66.6 +/- 2.5	67.6 +/- 2.5	66.5 +/- 2.5
Elevation Beamwidth 3 dB	Deg	24.8 +/- 3	21.2 +/- 2	19.3 +/- 1
Cross Polar Discrimination at Boresight	dB	26	24.2	27
Cross Polar Discrimination over Sector	dB	10	9	12
F/B at +/-30deg Total Power	dB	22	20.8	22
First Upper Side Lobe Suppression	dB	22	20	17
Electrical Downtilt	Deg	2 to 15		
Cross Polar Isolation	dB	25		
Interband Isolation	dB	30		
VSWR	-	1.5		
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153		
Maximum Effective Power per Port	Watts	400		



APXVBLL09B_43-C-I20

Triple band X-pol Antenna, 698-960/1710-2690/1710-2690MHz, 65deg, 13.1/16.2/16.4dBi, 0.9m, 2-15/2-12deg, Integrated RET

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2690 MHZ) [Y1]				
Frequency Band	Mhz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	16.1	16	16.2	16.2	15.9
Gain Over all Tilts	dBi	15.1 +/- 1	15.5 +/- 0.5	15.7 +/- 0.5	15.7 +/- 0.5	15.4 +/- 0.5
Azimuth Beamwidth 3dB	Deg	64.6 +/- 6.8	64.2 +/- 5.8	64.3 +/- 5.4	64.6 +/- 4.1	61.4 +/- 4.3
Elevation Beamwidth 3 dB	Deg	10.3 +/- 0.5	9.6 +/- 0.5	9.2 +/- 0.5	8.6 +/- 0.5	7.8 +/- 1
Cross Polar Discrimination at Boresight	dB	22	22	23	25	21
Cross Polar Discrimination over Sector	dB	8	8	6	9	3
F/B at +/-30deg Total Power	dB	18.5	19	20	19	18
First Upper Side Lobe Suppression	dB	13	14	14	17	13
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	25				
Interband Isolation	dB	30				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
Maximum Effective Power per Port	Watts	400				

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND ARRAY (1710-2690 MHZ) [Y2]				
Frequency Band	Mhz	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain Typical	dBi	15.8	16.4	16.1	16	16.2
Gain Over all Tilts	dBi	15.3 +/- 0.5	15.9 +/- 0.5	16 +/- 0.1	15.9 +/- 0.1	15.7 +/- 0.5
Azimuth Beamwidth 3dB	Deg	64 +/- 4	65.4 +/- 4.7	64.7 +/- 5.5	64.9 +/- 3	60.2 +/- 3
Elevation Beamwidth 3 dB	Deg	10.2 +/- 0.5	9.5 +/- 0.5	9.2 +/- 0.5	8.6 +/- 0.5	7.9 +/- 0.7
Cross Polar Discrimination at Boresight	dB	20	23.5	22	22.8	22
Cross Polar Discrimination over Sector	dB	9	9	7	10	2
F/B at +/-30deg Total Power	dB	19	20	20	19	18
First Upper Side Lobe Suppression	dB	12	13	14	15	13.6
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	25				
Interband Isolation	dB	30				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-153				
Maximum Effective Power per Port	Watts	400				



APXVBLL09B_43-C-I20

Triple band X-pol Antenna, 698-960/1710-2690/1710-2690MHz, 65deg, 13.1/16.2/16.4dBi, 0.9m, 2-15/2-12deg, Integrated RET

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

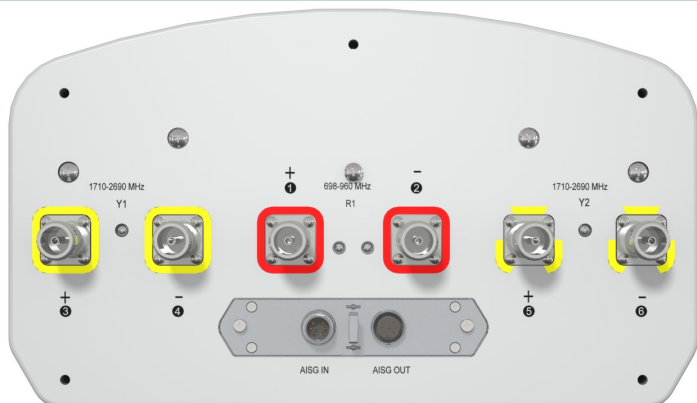
Dimensions - H x W x D	mm (in)	980 x 350 x 200 (38.6 x 13.8 x 7.9)
Weight (Antenna Only)	kg (lb)	16.2 (35.7)
Weight (Mounting Hardware only)	kg (lb)	4.5 (9.9)
Packing size- HxWxD	mm (in)	1250 x 425 x 275 (49.2 x 16.7 x 10.8)
Shipping Weight	kg (lb)	23.5 (51.8)
Connector type		6 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Gray

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		DC Ground
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	433
Wind Load @Rated Wind Side	N	225
Wind Load @Rated Wind Rear	N	245

ORDERING INFORMATION

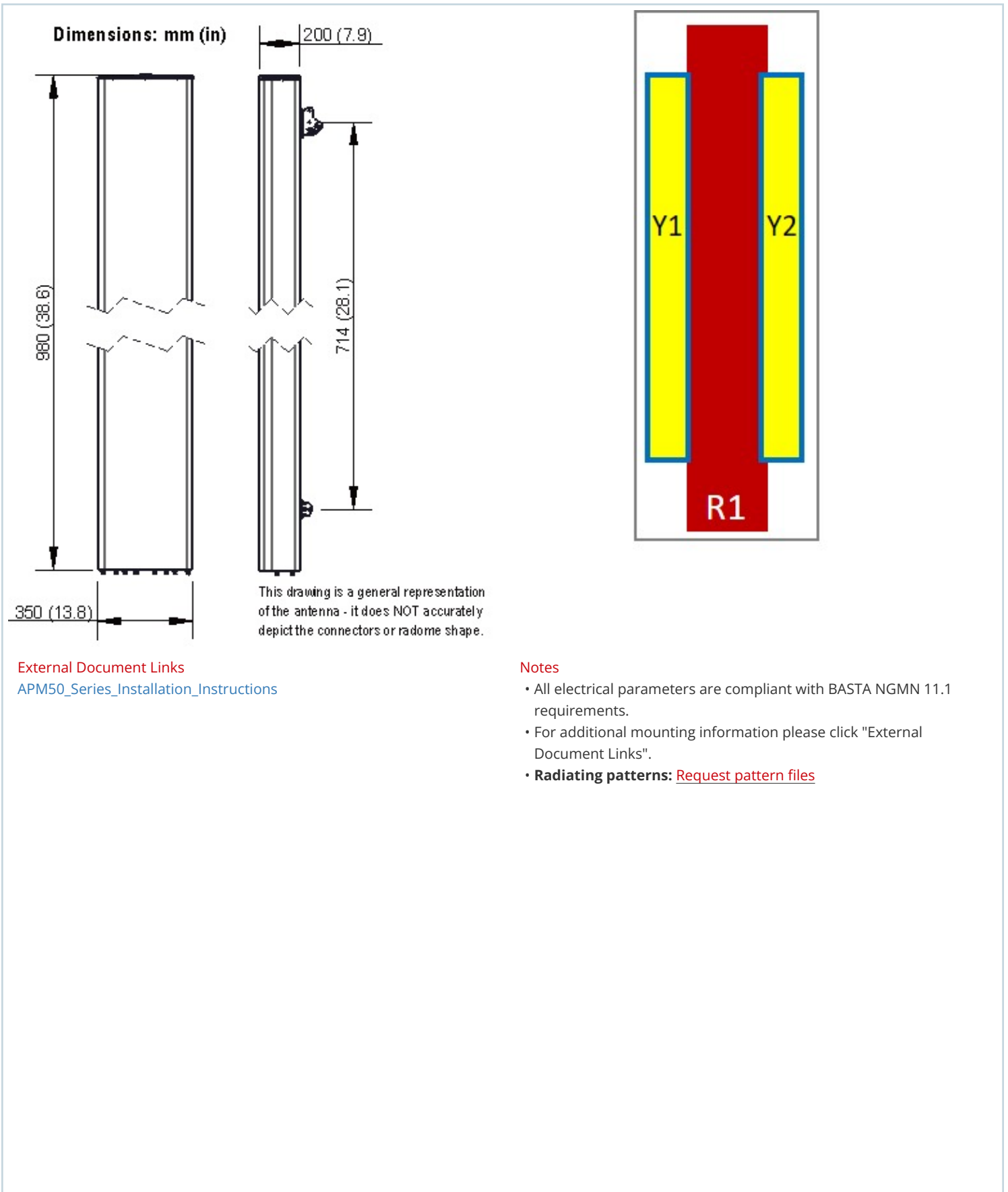
Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVBLL09B_43-C-I20	Internal RET (ACU-I20-B3)	APM50-B1	50-110 mm	23.5 kg





APXVBLL09B_43-C-I20

Triple band X-pol Antenna, 698-960/1710-2690/1710-2690MHz, 65deg, 13.1/16.2/16.4dBi, 0.9m, 2-15/2-12deg, Integrated RET



[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](#)