



FEATURES / BENEFITS

This antenna provides a 4 Port multi-band flexible platform for use in deployment scenarios encompassing 600, 700, 800 applications.

- 24 Inch Width For Easier Zoning
- Superior elevation pattern performance across the entire electrical down tilt range
- Low band arrays driven by a single RET motor
- ACU-A20-SR Field Replaceable (Integrated) AISG RET motor



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Low Band Arrays (617-894 MHz) Ports 1-4			
Frequency Band	MHz	617-698	698-746	746-806	806-894
Gain	dBi	15.9	16.2	16.2	16.3
Azimuth Beamwidth 3dB	Deg	67 +/-3	63+/-4	62+/-3	62+/-2
Elevation Beamwidth 3dB	Deg	10.1+/-0.5	9.2+/-0.4	8.5+/-0.3	7.9+/-0.4
Cross-Pol at Boresight	dB	17	18	19	20
F/B at 180 Copolar	dB	28	29	32	34
Electrical Downtilt	Deg	2 to 12	2 to 12	2 to 12	2 to 12
First Upper Side Lobe	dB	19	19	18	17
VSWR	-	1.5:1	1.5:1	1.5:1	1.5:1
Return Loss	dB	-14	-14	-14	-14
Cross Polar Isolation	dB	25	25	25	25
3rd Order PIM 2 x 43dBm	dBc	-153	-153	-153	-153
Maximum CW Power per Port	Watt	400	400	400	400
Gain Over All Tilts	dBi	15.4+/-0.5	15.7+/-0.5	15.6+/-0.6	15.9+/-0.5
Cross-Pol over Sector	dB	8	6	5	6
F/B at +/-30 Total Power	dB	19	19	20	22
Upper Side Lobe Peak to +20	dB	18	18	18	17

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	+/- 45

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	2436 x 609 x 215 (95.9 x 24 x 8.5)
Weight (Antenna Only)	kg (lb)	43.7 (96.3)
Weight (Mounting Hardware only)	kg (lb)	12.3 (27.1)
Packing size- HxWxD	mm (in)	2565 x 735 x 390 (101 x 28.9 x 15.4)
Shipping Weight	kg (lb)	65.9 (145.3)
Connector type		4 x 4.3-10 female at bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiber Glass / Light Grey RAL7035



TESTING AND ENVIRONMENTAL

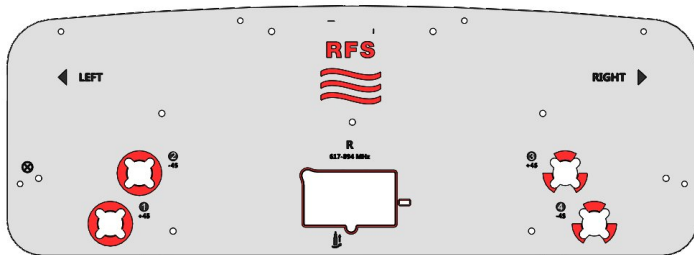
Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		DC Grounded
Survival/Rated Wind Velocity	km/h	240 (150)
Wind Load @Rated Wind Front	N	1428
Wind Load @Rated Wind Side	N	434
Wind Load @Rated Wind Rear	N	1544

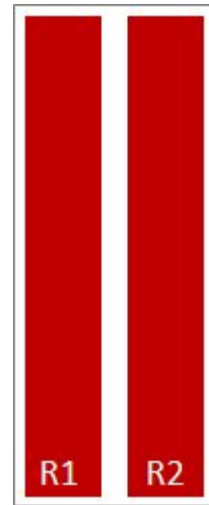
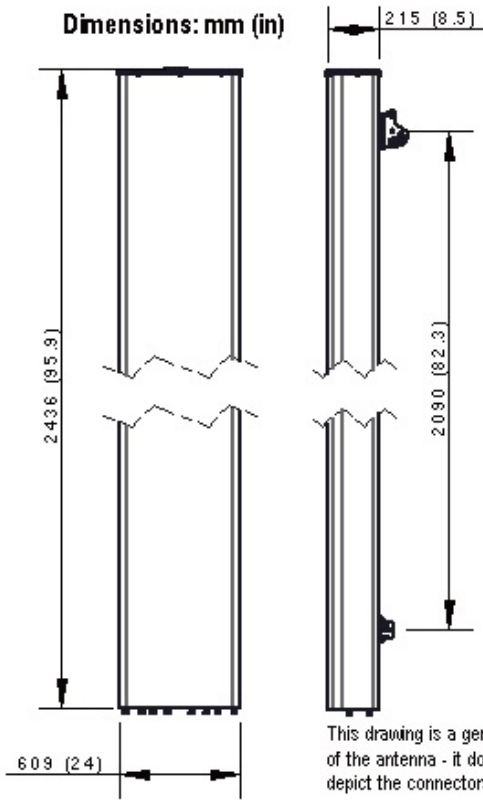
ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
APXVAA24X_43-U-NA20	ACU-A20-SR Field Replace RET included (1)	APM40-5E Beam tilt kit (included)	60-120mm	65.9 Kg

Port	Array	Frequency	RET	AISG RET UID
1	R1	617-894	R1	RFxxxxxxxxxxx-2R1
2		617-894		
3	R2	617-894		
4		617-894		

RET Information	
Frequency	617-894
Model	ACU-A20-SR
Location	Semi-internal
Field Replaceable	Yes
Quantity	1
RET ID	R1





External Document Links

[APM40_Series_Installation_Instructions](#)

[Manual Overdrive 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](#)