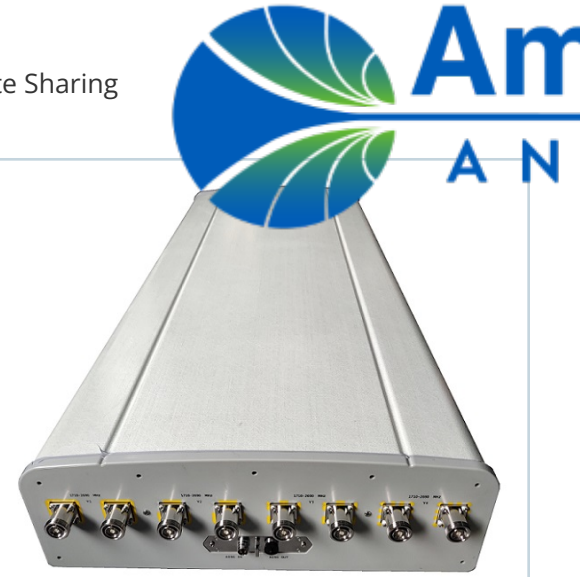
PRODUCT DATASHEET

APXVLLLL15B2_43-C-I20, -C-I20S

8-Ports, X-Pol, Panel Antenna, 1.5m, 4x 1710-2690MHz, 65deg, Integrated RET, Site Sharing Optional



FEATURES / BENEFITS

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

Technical features

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	17.3	18	18.2	18.1	18.7
Gain Over all Tilts	dBi	16.8 +/- 0.5	17.5 +/- 0.5	17.7 +/- 0.5	18 +/- 0.1	18.2 +/- 0.5
Azimuth Beamwidth 3dB	Deg	68.1 +/- 4.5	63.9 +/- 4.5	64.1 +/- 4.1	63.6 +/- 3.9	61 +/- 6.6
Elevation Beamwidth 3dB	Deg	6.7 +/- 0.5	6 +/- 0.1	5.8 +/- 0.5	5 +/- 0.1	4.8 +/- 0.5
Cross Polar Discrimination at Boresight	dB	24	27	27	27	20
Cross Polar Discrimination over Sector	dB	15	15	15	12.2	10
F/B at +/-30deg Total Power	dB	22	23	24	24	20
First Upper Side Lobe Suppression	dB	19	18	18	19	17
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
Maximum Effective Power per Port	Watt	250				

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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	17.4	18.2	18.4	18.1	18.1
Gain Over all Tilts	dBi	16.9 +/- 0.5	17.7 +/- 0.5	17.9 +/- 0.5	18 +/- 0.1	18 +/- 0.1
Azimuth Beamwidth 3dB	Deg	67 +/- 8.1	58 +/- 4.9	55.5 +/- 5.5	63.5 +/- 2	60.4 +/- 5.5
Elevation Beamwidth 3dB	Deg	6.8 +/- 0.5	6 +/- 0.1	5.8 +/- 0.5	5 +/- 0.1	4.7 +/- 0.5
Cross Polar Discrimination at Boresight	dB	23.9	24	25	26.1	19
Cross Polar Discrimination over Sector	dB	17	16	17	15	8
F/B at +/-30deg Total Power	dB	23	25	24	24	20
First Upper Side Lobe Suppression	dB	18	17	16.1	18	14
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
Maximum Effective Power per Port	Watt	250				

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Array (1710-2690 MHz) [Y3]				
Frequency Band	MHz	1710 - 1880	1850 - 1990	1920 - 2170	2300 - 2400	2490 - 2690
Gain Typical	dBi	18	18.3	18.1	18.1	18.6
Gain Over all Tilts	dBi	17 +/- 1	17.8 +/- 0.5	18 +/- 0.1	18 +/- 0.1	18.1 +/- 0.5
Azimuth Beamwidth 3dB	Deg	66.5 +/- 7.5	57.8 +/- 4.5	56 +/- 5	63.5 +/- 2.5	60.6 +/- 5.1
Elevation Beamwidth 3dB	Deg	6.8 +/- 0.5	6.1 +/- 0.1	5.8 +/- 0.5	5 +/- 0.1	4.7 +/- 0.5
Cross Polar Discrimination at Boresight	dB	23	24	24	28	21
Cross Polar Discrimination over Sector	dB	17	16	16.5	14	9
F/B at +/-30deg Total Power	dB	24	24.9	24	23.6	22
First Upper Side Lobe Suppression	dB	19	17	17	20	17.4
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
VSWR	-	1.5				
Passive Intermodulation (3rd Order, 2 x 43dBm)	dBc	-150				
Maximum Effective Power per Port	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	17.1	18.2	18.3	18.1	18.7
Gain Over all Tilts	dBi	17 +/- 0.1	17.7 +/- 0.5	17.8 +/- 0.5	18 +/- 0.1	18.2 +/- 0.5
Azimuth Beamwidth 3dB	Deg	67.7 +/- 5.1	63.6 +/- 4.6	63.5 +/- 4	64.2 +/- 3	61 +/- 5
Elevation Beamwidth 3dB	Deg	6.7 +/- 0.5	6 +/- 0.1	5.8 +/- 0.5	5 +/- 0.1	4.8 +/- 0.5
Cross Polar Discrimination at Boresight	dB	23	24	23	24	21
Cross Polar Discrimination over Sector	dB	15	13	14	14	9
F/B at +/-30deg Total Power	dB	23	25	24	23	20
First Upper Side Lobe Suppression	dB	18	17	17	18	16
Electrical Downtilt	Deg	2 to 12				
Cross Polar Isolation	dB	28				
Interband Isolation	dB	28				
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)	1485 x 499 x 199 (58.5 x 19.6 x 7.8)
Weight (Antenna Only)	kg (lb)	24.1 (53.4)
Packing size- HxWxD	mm (in)	1730 x 595 x 295 (68.1 x 23.4 x 11.6)
Connector type		8 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female)
Radome Material / Color		Fiberglass / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		Direct grounded
Survival/Rated Wind Velocity	km/h	200 (150)
Wind Load @Rated Wind Front	N	494
Wind Load @Rated Wind Side	N	430
Wind Load @Rated Wind Rear	N	573

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ORDERING INFORMATION

Order No.	Configuration	Mounting Hardware	Mounting Pipe Diameter	Shipping Weight kg(lb)	Mounting Hardware Weight kg(lb)
APXVLLLL15B2_43-C-I20	Internal RET(ACU-I20-B4)	APM50-B1	50-110mm	34.6 (76.3)	4.5 (9.9)
APXVLLLL15B2_43-C-I20S	Internal Site Sharing RET(ACU-X20-B4)	APM50-B1	50-110mm	34.6 (76.3)	4.5 (9.9)

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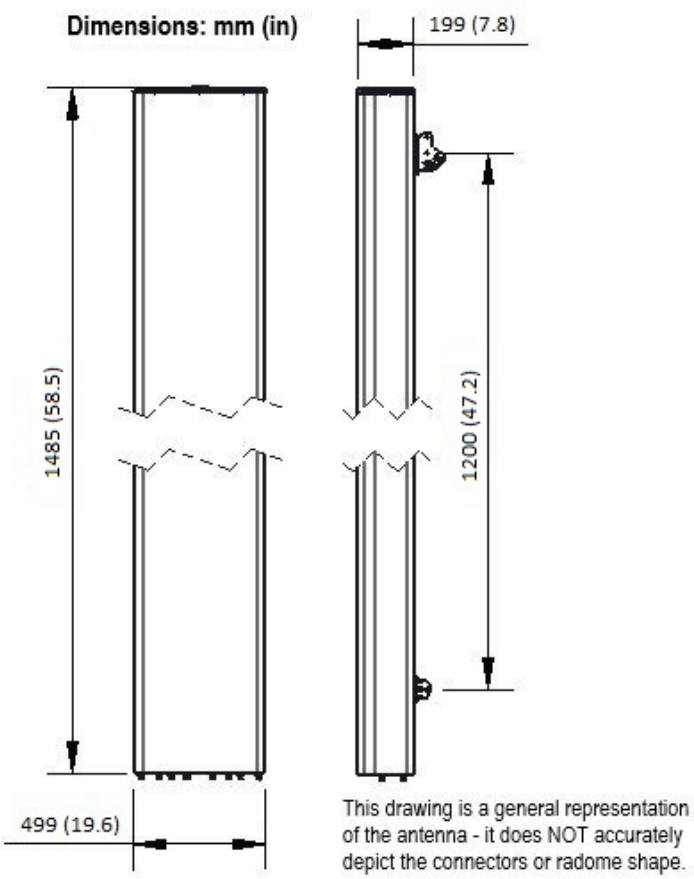

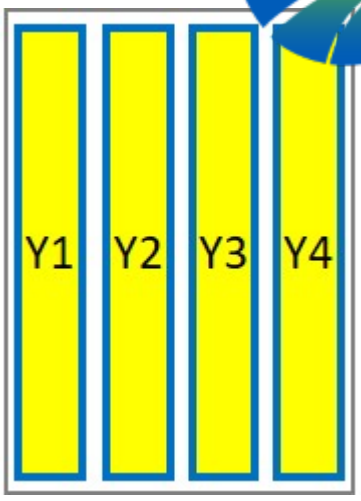

External Document Links

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