

APXVAALL12M-C-I20



8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 2x RET

- Narrow 499 mm radome for reduced windloading and easier zoning
- MIMO 4x4 in low-band and mid-band
- Compliant with AISG v2.0 and 3GPP
- Mechanical downtilt kit included
- Integrated RET

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (1) Mid band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

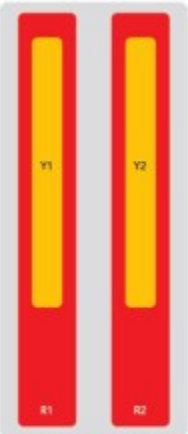
Dimensions

Width	499 mm 19.646 in
Depth	215 mm 8.465 in

APXVAALL12M-C-I20

Length	1219 mm 47.992 in
Net Weight, without mounting kit	22 kg 48.502 lb

Array Layout



Left
Right
Bottom

Array ID	Frequency(MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	617-894	1 - 2	1	RFxxxxxxxxxxxxxxxxR1
R2	617-894	3 - 4		
Y1	1695-2690	5 - 6	2	RFxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8		

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 617 – 894 MHz

APXVAALL12M-C-I20

Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617–698	698–806	806–894	1695–1880	1850–1990	1995–2200	2200–2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	13	13.8	13.9	16	16.3	16.7	17.4
Gain at Mid Tilt, dBi	12.6	13.5	13.7	15.2	16	16.5	16.7
Beamwidth, Horizontal, degrees	71	64	58	71	65	62	59
Beamwidth, Vertical, degrees	19.1	17.4	15.3	9.5	8.7	7.6	6.5
Beam Tilt, degrees	2–18	2–18	2–18	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	14	14	15	19	18	16	15
Front-to-Back Ratio at 180°, dB	26	24	29	29	28	27	27
Front-to-Back Total Power at 180° ± 30°, dB	18	20	21	23	22	23	22
CPR at Boresight, dB	20	21	16	15	21	18	18
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	19	19	19	23	23	23	23
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

Mechanical Specifications

BASTA Version, mechanical	BASTA v12
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Packaging and Weights

Width, packed	560 mm 22.047 in
Depth, packed	265 mm 10.433 in
Length, packed	1430 mm 56.299 in
Weight, gross	30 kg 66.139 lb

APXVAALL12M-C-I20

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
UK-ROHS	Compliant

Included Products

10052511-1	– APM40-2 mechanical downtilt bracket and. APM40-E10 mounting kit
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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