

2UPX210B-T2-V2



4-port multibeam antenna, 4x 694–896 MHz, 2x 37° HPBW, 2x RET

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt on both beams
- Single panel design supporting two separate beams perfectly optimized at horizontal pointing angles of +27 degrees and -27 degrees from boresight

General Specifications

Antenna Type	Multibeam
Band	Single band
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, low band	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

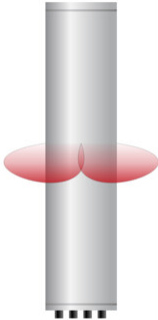
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	640 mm 25.197 in
Depth	235 mm 9.252 in
Length	2533 mm 99.724 in
Net Weight, antenna only	56.6 kg 124.781 lb

2UPX210B-T2-V2

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	694-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-896	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2

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

Port Configuration



Electrical Specifications

2UPX210B-T2-V2

Impedance	50 ohm
Operating Frequency Band	694 – 896 MHz
Polarization	±45°
Total Input Power, maximum	700 W @ 50 °C
BASTA Version, electrical	BASTA v12

Electrical Specifications

	R1,R2	R1,R2
Frequency Band, MHz	694–806	806–896
RF Port	1-4	1-4
Gain at Mid Tilt, dBi	17.2	18.7
Beam Centers, Horizontal, degrees	±27	±27
Beamwidth, Horizontal, degrees	40	35
Beamwidth, Vertical, degrees	8.8	7.6
Beam Tilt, degrees	2–12	2–12
USLS (First Lobe), dB	18	16
Front-to-Back Ratio at 180°, dB	25	31
Front-to-Back Total Power at 180° ± 30°, dB	22	23
Isolation, Cross Polarization, dB	25	25
Isolation, Inter-band, dB	25	25
Isolation, Beam to Beam, dB	17	17
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200

Electrical Specifications, BASTA

	694–806	806–896
Frequency Band, MHz	694–806	806–896
Gain by all Beam Tilts, average, dBi	17.1	18.6
Gain by all Beam Tilts Tolerance, dB	±0.9	±0.7
Beamwidth, Horizontal Tolerance, degrees	±2	±1
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.3
USLS, beampeak to 20° above beampeak, dB	16	16
CPR at Boresight, dB	18	18
CPR at Sector, dB	7	6

2UPX210B-T2-V2

Mechanical Specifications

BASTA Version, mechanical	BASTA v11
Wind Loading @ Velocity, frontal	1,102.0 N @ 150 km/h (247.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	372.0 N @ 150 km/h (83.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,497.0 N @ 150 km/h (336.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,135.0 N @ 150 km/h (255.2 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	744 mm 29.291 in
Depth, packed	346 mm 13.622 in
Length, packed	2662 mm 104.803 in
Weight, gross	76.5 kg 168.653 lb

Regulatory Compliance/Certifications

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

Included Products

BSAMNT-4	-	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
BSAMNT-M4	-	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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