

UNNPX206R3

6-port sector antenna, 2x 698–894 and 4x 1710–2180 MHz, 33° HPBW, 3x RET.



OBSOLETE

This product was discontinued on: November 30, 2023

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
Radome Material	ASA, UV stabilized
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	3 female 3 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (1)

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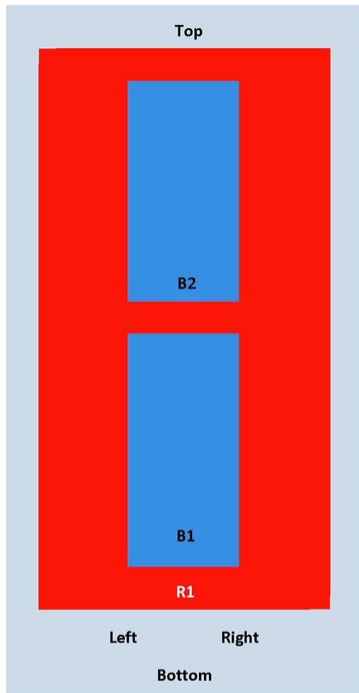
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	622 mm 24.488 in
Depth	229 mm 9.016 in
Length	1584 mm 62.362 in
Net Weight, without mounting kit	30 kg 66.139 lb

Array Layout

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Array	Freq (MHz)	Combs	RET (SRET)	AISG RET UID
R1	698-894	1-2	1	ARXXXXXXXXXXXXXXXXX1
B1	1710-2180	3-4	2	ARXXXXXXXXXXXXXXXXX2
B2	1710-2180	5-6	3	ARXXXXXXXXXXXXXXXXX3

View from the front of the antenna

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

Electrical Specifications

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Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz 698 – 894 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	698–790	790–894	1710–1920	1920–2180
Gain, dBi	17.2	17.7	17.4	18.2
Beamwidth, Horizontal, degrees	35	31	34	32
Beamwidth, Vertical, degrees	15.8	14.1	13.2	11.8
Beam Tilt, degrees	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18
Front-to-Back Ratio at 180°, dB	30	35	28	32
CPR at Boresight, dB	22	21	20	20
Isolation, Cross Polarization, dB	30	30		
Isolation by Beam Tilt, dB			28, 0° 1° 30, 2° – 10°	28, 0° 1° 30, 2° – 10°
Isolation, Inter-band, dB	30	30	30	30
VSWR Return loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153
Input Power per Port, maximum, watts	500	500	300	300

Mechanical Specifications

Wind Loading @ Velocity, frontal	1,206.0 N @ 150 km/h (271.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	219.0 N @ 150 km/h (49.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,237.0 N @ 150 km/h (278.1 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	712 mm 28.032 in
Depth, packed	330 mm 12.992 in
Length, packed	1787 mm 70.354 in
Weight, gross	50 kg 110.231 lb

Regulatory Compliance/Certifications

Agency	Classification
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UNNPX206R3

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

Included Products

- T-041-GL-E – Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance