

6-port sector antenna, 2x 698–960 and 4x 1710–2690 MHz, 65° HPBW, 3x RET with manual override.

• Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays

OBSOLETE

This product was discontinued on: March 27, 2020

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance NoteOutdoor usageRadome MaterialASA, UV stabilizedRF Connector Interface7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 4
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)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

COMMSCOPE®

Dimensions

Width 353 mm | 13.898 in

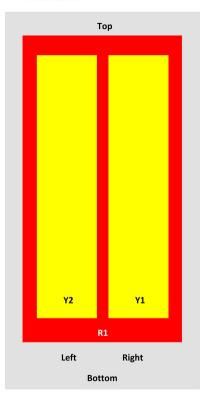
Depth 209 mm | 8.228 in

Length 1380 mm | 54.331 in

Net Weight, without mounting kit 20 kg | 44.092 lb

Array Layout

RVVPX305.10R3



Array	Freq (MHz) 698-960	Conns	RET (SRET)	AISG RET UID		
R1		1-2	1	ARxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
Yl	1710-2690	3-4	2	ARxxxxxxxxxxxxxxxxxx2		
Y2	1710-2690	5-6	3	ARxxxxxxxxxxxxxxxxx3		

View from the front of the antenna

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2690 MHz | 698 – 960 MHz

Polarization ±45°

COMMSCOPE®

Electrical Specifications									
Frequency Band, MHz	698-790	790-890	890-960	1710-1920	1920-2170	2300-2690			
Gain, dBi	13.4	13.7	14.2	16.6	17.1	17.8			
Beamwidth, Horizontal, degrees	67.7	68.7	62.6	62	63.1	61			
Beamwidth, Vertical, degrees	20.2	18.1	16.6	8.3	7.3	6			
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10			
USLS (First Lobe), dB	18	18	18	18	18	18			
Null Fill, dB				-22	-22	-22			
Front-to-Back Ratio at 180°, dB	25	23	23	28	32	30			
CPR at Boresight, dB	17	13	13	19	17	16			
CPR at Sector, dB	10	10	9	7	5	5			
Isolation, Cross Polarization, dB	25	25	25	25	25	25			
Isolation, Inter-band, dB	28	30	30	27	28	30			
VSWR Return loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0			
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150			
Input Power per Port, maximum, watts	300	300	300	250	250	250			
Electrical Specifications, BASTA									
Frequency Band, MHz	698-790	790-890	890-960	1710-1920	1920-2170	2300-2690			
Gain by all Beam Tilts, average, dBi	13.2	13.5	14	16.3	16.8	17.4			
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.3	±0.5	±0.4	±0.6			
Gain by Beam Tilt, average, dBi	0° 13.3 5° 13.2 10° 13.2	0° 13.5 5° 13.5 10° 13.4	0° 14.0 5° 14.1 10° 14.0	0° 16.4 5° 16.3 10° 16.3	0° 16.8 5° 16.8 10° 16.9	0° 17.6 5° 17.5 10° 17.1			
Beamwidth, Horizontal Tolerance, degrees	±1.6	±1.8	±2.1	±2.9	±5	±6.5			
Beamwidth, Vertical Tolerance, degrees	±0.9	±1.1	±0.8	±0.6	±0.6	±0.5			
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18			
Front-to-Back Total Power at 180° ± 30°, dB	24	22	23	23	25	26			
CPR at Boresight, dB	18	13	14	21	18	18			

Page 3 of 4

CPR at Sector, dB 11 10 8 7 5 4

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 575.0 N @ 150 km/h (129.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 220.0 N @ 150 km/h (49.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 590.0 N @ 150 km/h (132.6 lbf @ 150 km/h)

Wind Speed, maximum 250 km/h (155 mph)

Packaging and Weights

 Width, packed
 420 mm | 16.535 in

 Depth, packed
 320 mm | 12.598 in

 Length, packed
 1560 mm | 61.417 in

 Weight, gross
 36 kg | 79.366 lb

Regulatory Compliance/Certifications

AgencyClassificationCECompliant with the relevant CE product directivesCHINA-ROHSAbove maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



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 NoteSevere environmental conditions may degrade optimum performance