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8-port multibeam antenna, 4x 698–894 and 4x 1710-2180 MHz, 4x 35° HPBW, 4x RET

- Antenna has individual AISG connectors per band: One in/out pair for low band in cascaded single-RET configuration to independently control the two low band beams; one in/out pair for high band in cascaded single-RET configuration to independently control the two high band beams

Electrical Specifications

Frequency Band, MHz	**698–806**	**806–894**	**1710–1880**	**1850–1990**	**1920–2180**
Gain, dBi	14.9	15.5	17.6	18.6	18.6
Beam Centers, Horizontal, degrees	±29	±25	±32	±30	±28
Beamwidth, Horizontal, degrees	40	35	34	31	31
Beamwidth, Vertical, degrees	15.6	13.5	6.9	6.5	6.2
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	17	14	18	18	18
Front-to-Back Ratio at 180°, dB	24	24	35	40	39
Isolation, Same Beam, dB	25	25	25	25	25
Isolation, Beam to Beam, dB	18	18	18	18	18
VSWR | Return Loss, dB	1.43 | 15.0	1.43 | 15.0	1.43 | 15.0	1.43 | 15.0	1.43 | 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	**698–806**	**806–894**	**1710–1880**	**1850–1990**	**1920–2180**
Gain by all Beam Tilts, average, dBi	14.7	15.1	17.4	18.2	18.4
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.7	±0.6	±0.6	±0.8
Gain by Beam Tilt, average, dBi	0 ° | 14.7 5 ° | 14.7 10 ° | 14.6	0 ° | 15.2 5 ° | 15.1 10 ° | 14.9	0 ° | 17.5 5 ° | 17.4 10 ° | 17.3	0 ° | 18.2 5 ° | 18.2 10 ° | 18.1	0 ° | 18.5 5 ° | 18.5 10 ° | 18.1
Beamwidth, Horizontal Tolerance, degrees	±2	±2.7	±2.8	±1.6	±1.2
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.9	±0.4	±0.2	±0.4
USLS, beampeak to 20° above beampeak, dB	18	16	17	18	18
Front-to-Back Total Power at 180° ± 30°, dB	21	20	30	35	34
CPR at Boresight, dB	19	18	22	22	18

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

General Specifications

Operating Frequency Band	1710 – 2180 MHz | 698 – 894 MHz

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Antenna Type	Multibeam
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	8
RF Connector Quantity, low band	4
RF Connector Quantity, high band	4
RF Connector Interface	7-16 DIN Female
Color	Gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Aluminum | Low loss circuit board
Radome Material	ASA, UV stabilized
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	1473.0 N @ 150 km/h 331.1 lbf @ 150 km/h
Wind Loading, lateral	256.0 N @ 150 km/h 57.6 lbf @ 150 km/h
Wind Speed, maximum	200 km/h | 124 mph

Dimensions

Length	1728.0 mm | 68.0 in
Width	684.0 mm | 26.9 in
Depth	245.0 mm | 9.6 in
Net Weight, without mounting kit	44.0 kg | 97.0 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (2) | Low band (2)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male

Packed Dimensions

Length	1932.0 mm | 76.1 in

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Width	787.0 mm | 31.0 in
Depth	347.0 mm | 13.7 in
Shipping Weight	69.0 kg | 152.1 lb

Regulatory Compliance/Certifications

Agency	**Classification**
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)
CE	Compliant with the relevant CE product directives

Included Products

T-041-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (50-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance