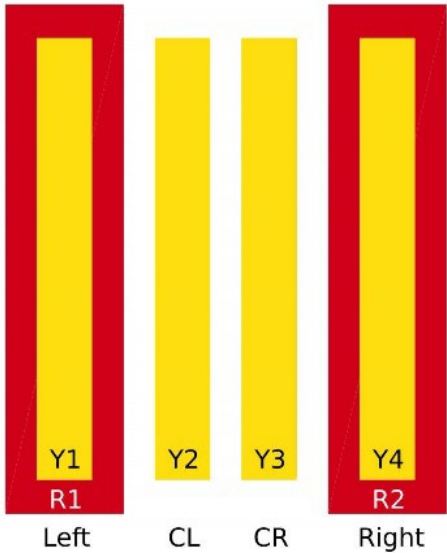




Antenna 4800 2L 4M 2.6m

KRE 101 2520/1

65° | 2x 698–960 MHz | 17.0 dBi
65° | 2x 1427–2690 MHz | 18.0 dBi
65° | 2x 1695–2690 MHz | 18.0 dBi
12 x 4.3-10 ports

High beam-efficiency

High electrical efficiency

Replaceable RET

Safe & Smart

L-band support



Layout of interface



Frequency range	Array	Ports
698–960 MHz	R1	1–2
698–960 MHz	R2	3–4
1427–2690 MHz	Y1	5–6
1695–2690 MHz	Y2	7–8
1695–2690 MHz	Y3	9–10
1427–2690 MHz	Y4	11–12

Electrical specifications, all ports

Values based on NGMN-P-BASTA (version 12.0) requirements:

Impedance	Ω	50
VSWR		< 1.5
Return Loss	dB	> 14
Inter-Cluster Isolation	dB	> 25
Passive Intermodulation	dBc	< -153 (2 x 43 dBm carrier)*
Polarization	°	+45, -45
Max. Effective Power Whole Antenna	W	1200

Lowband R1 / R2

Frequency Range	MHz 698 – 806	791 – 862	814 – 894	880 – 960
Gain	dBi 16.5	16.9	17.1	17.2

Values based on NGMN-P-BASTA (version 12.0) requirements:

Horizontal Pattern:

Azimuth Beamwidth	°	59 ± 4	58 ± 4	56 ± 3	54 ± 5
Front-to-Back Ratio, Total Power, ± 30°	dB	> 19	> 20	> 23	> 27
Cross Polar Discrimination at Mechanical Boresight	dB	> 21	> 19	> 19	> 20

Vertical Pattern:

Elevation Beamwidth	°	9.2 ± 0.7	8.7 ± 0.5	8.4 ± 0.5	7.9 ± 0.5
Electrical Downtilt continuously adjustable	°			2.5 – 10.0	
Elevation Downtilt Deviation	°	< 0.6	< 0.5	< 0.5	< 0.4
First Upper Sidelobe Suppression	dB	> 16	> 18	> 19	> 20
Upper Sidelobe Suppression, Peak to 20°	dB	> 16	> 16	> 16	> 16
Gain over all Tilts	dBi	15.9 ± 0.6	16.3 ± 0.6	16.6 ± 0.5	16.7 ± 0.6
Intra-Cluster Isolation	dB			> 25	
Max. Effective Power per Port	W			200	

1LB nMB

2LB nMB

3LB nMB



Midband Y1 / Y4

Frequency Range	MHz	1427 – 1496	1492 – 1518	1695 – 1880	1850 – 1990	1920 – 2170	2300 – 2400	2500 – 2690
Gain	dBi	16.9	17.0	17.7	18.0	18.3	18.5	18.4

Values based on NGMN-P-BASTA (version 12.0) requirements:

Horizontal Pattern:

Azimuth Beamwidth	°	69 ± 4	69 ± 3	70 ± 4	68 ± 5	66 ± 6	60 ± 5	56 ± 5
Front-to-Back Ratio, Total Power, ± 30°	dB	> 26	> 27	> 25	> 28	> 29	> 29	> 25
Cross Polar Discrimination at Mechanical Boresight	dB	> 17	> 18	> 20	> 20	> 20	> 23	> 18

Vertical Pattern:

Elevation Beamwidth	°	8.2 ± 0.5	7.9 ± 0.5	7.0 ± 0.5	6.5 ± 0.4	6.2 ± 0.4	5.6 ± 0.3	5.3 ± 0.4
Electrical Downtilt continuously adjustable	°	2.0 – 12.0						
Elevation Downtilt Deviation	°	< 0.5	< 0.4	< 0.5	< 0.4	< 0.5	< 0.5	< 0.5
First Upper Sidelobe Suppression	dB	> 17	> 17	> 19	> 20	> 20	> 19	> 20
Upper Sidelobe Suppression, Peak to 20°	dB	> 15	> 17	> 19	> 19	> 19	> 18	> 17
Gain over all Tilts	dBi	16.2 ± 0.7	16.57 ± 0.5	17.1 ± 0.6	17.4 ± 0.7	17.6 ± 0.7	17.7 ± 0.8	17.6 ± 0.8
Intra-Cluster Isolation	dB	> 25						
Max. Effective Power per Port	W	200						

1LB nMB

2LB nMB

3LB nMB



Midband Y2 / Y3

Frequency Range	MHz	1695 – 1880	1850 – 1990	1920 – 2170	2300 – 2400	2500 – 2690
Gain	dBi	17.6	17.7	17.8	17.9	18.7

Values based on NGMN-P-BASTA (version 12.0) requirements:

Horizontal Pattern:

Azimuth Beamwidth	°	65 ± 12	70 ± 9	70 ± 10	70 ± 7	65 ± 9
Front-to-Back Ratio, Total Power, ± 30°	dB	> 23	> 24	> 24	> 26	> 30
Cross Polar Discrimination at Mechanical Boresight	dB	> 22	> 22	> 20	> 19	> 18

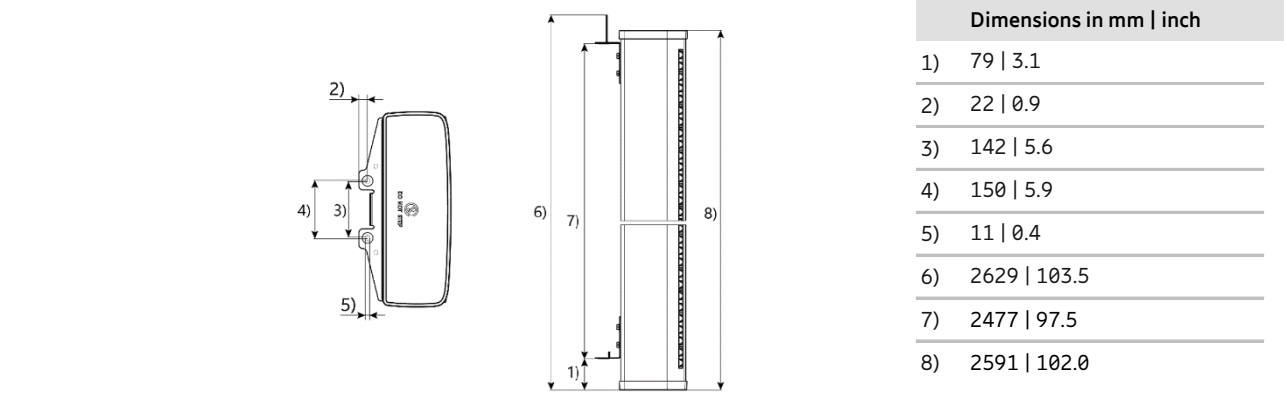
Vertical Pattern:

Elevation Beamwidth	°	6.9 ± 0.6	6.4 ± 0.4	6.1 ± 0.5	5.5 ± 0.4	5.2 ± 0.3
Electrical Downtilt continuously adjustable	°	2.0 – 12.0				
Elevation Downtilt Deviation	°	< 0.4	< 0.4	< 0.4	< 0.5	< 0.5
First Upper Side Lobe Suppression	dB	> 16	> 17	> 17	> 17	> 18
Upper Sidelobe Suppression, Peak to 20°	dB	> 14	> 15	> 14	> 14	> 16
Gain over all Tilts	dBi	16.9 ± 0.7	17.1 ± 0.7	17.0 ± 0.8	17.1 ± 0.9	17.8 ± 1.0
Intra-Cluster Isolation	dB	> 25				
Max. Effective Power per Port	W	200				

1LB nMB

2LB nMB

3LB nMB



Mechanical specifications

Values based on NGMN-P-BASTA (version 12.0) requirements:

Input	12x 4.3-10 female			
Connector Position	bottom			
Adjustment Mechanism	FlexRET, continuously adjustable			
Wind Load (at Rated Wind Speed: 150 km/h)	N lbf	Frontal: Lateral: Maximum360:	1106 249 325 73 1502 338	
Effective Projected Area (EPA)	m² sqft	Frontal: Lateral: Maximum360:	1.020 10.974 0.300 3.225 1.385 14.905	
Wind Load Standard	EN 1994-1-4			
Wind Load Laboratory	TU Dresden; Göttinger-type wind tunnel			
Max. Wind Velocity	km/h mph	241 150		
Dimensions (Height / Width / Depth)	mm inches	2591 / 488 / 164 102.0 / 19.2 / 6.5		
Category of Mounting Hardware	XM (X-Medium)			
Weight	kg lb	56.0 123.5	clamps included	60.5 133.4
Packing Size (Height / Width / Depth)	mm inches	2725 / 550 / 293 108.1 / 21.7 / 11.5		

Environmental specifications

Temperature, Normal Operation	°C	-40 (Min) to 55 (Max)
Relative Humidity, Normal Operation	%	5 (Min) to 100 (Max)

Accessories (included in the scope of supply)

Product No.	Description	Remarks	Units per antenna
85010111	2 clamps	Mast diameter (mm inches): 55–115 2.2–4.5	1
86010165	FlexRET	Compliant to 3GPP / AISG 2.0– AISG 3 ready	1

For optional accessories, please refer to <https://portfolio.ericsson.net/p/KRE1012520~1>



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