

# 10P-4L6M-B5-V4



10-port sector antenna, 4x 694–960 and 6x 1695–2690 MHz, 65° HPBW, 5x RET

## General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	6
RF Connector Quantity, low band	4
RF Connector Quantity, total	10

## 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)   Mid band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

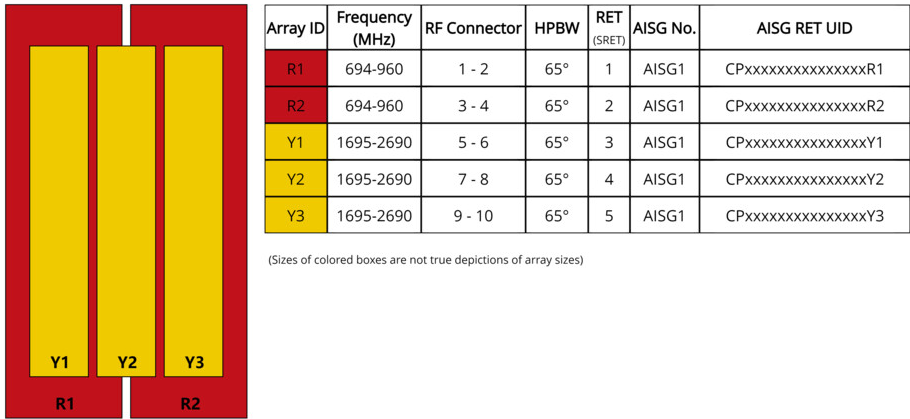
## Dimensions

Width	467 mm   18.386 in
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Depth	167 mm   6.575 in
Length	1997 mm   78.622 in
Net Weight, antenna only	28 kg   61.729 lb

## Array Layout



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1-Y3	Y1-Y3	Y1-Y3	Y1-Y3	Y1-Y3
Frequency Band, MHz	694–806	790–894	890–960	1695–1880	1850–1990	1920–2200	2300–2400	2490–2690
RF Port	1-4	1-4	1-4	5-10	5-10	5-10	5-10	5-10
Gain, dBi	14.9	15.4	15.7	17.2	17.2	17.7	17.9	17.9
Beamwidth, Horizontal, degrees	68	61	58	70	68	65	55	60
Beamwidth, Vertical, degrees	11	10	9.2	6.7	6.4	6	5.4	5
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	15	15	17	17	18	19	17
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	24	26	26	26	26	27	29	25
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25

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Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	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	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200	200

## Electrical Specifications, BASTA

Frequency Band, MHz	694–806	790–894	890–960	1695–1880	1850–1990	1920–2200	2300–2400	2490–2690
Gain by all Beam Tilts, average, dBi	14.5	15.1	15.4	16.6	16.8	17.2	17.5	17.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.3	±0.6	±0.5	±0.6	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±6	±6	±5	±8	±8	±8	±6	±7
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.6	±0.6	±0.7	±0.7	±0.7	±0.5	±0.7
CPR at Boresight, dB	19	18	20	17	17	18	20	20


## Mechanical Specifications

Wind Loading @ Velocity, frontal	820.0 N @ 150 km/h (184.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	308.0 N @ 150 km/h (69.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

## Packaging and Weights

Width, packed	542 mm   21.339 in
Depth, packed	277 mm   10.906 in
Length, packed	2197 mm   86.496 in
Weight, gross	38 kg   83.776 lb

## Regulatory Compliance/Certifications

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

\* Footnotes

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**Performance Note**

Severe environmental conditions may degrade optimum performance