

10P-4L6M-D5-V2



10-port sector antenna, 4x 698–960 and 6x 1710–2690 MHz, 65° HPBW, 5x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

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	4.3-10 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

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Width	469 mm 18.465 in
Depth	198 mm 7.795 in
Length	2490 mm 98.032 in
Net Weight, antenna only	37.1 kg 81.791 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SMT)	AISG No.	RET UID
R1	698-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxxxxxxY3

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz 698 – 960 MHz

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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	698–806	790–894	880–960	1710–1880	1850–1990	1920–2180	2300–2400	2490–2690
RF Port	1-4	1-4	1-4	5-10	5-10	5-10	5-10	5-10
Gain, dBi	16.2	16.7	16.8	17.6	17.8	18	17.8	18.1
Beamwidth, Horizontal, degrees	64	62	62	63	63	61	62	55
Beamwidth, Vertical, degrees	8.8	7.9	7.4	6.5	6.3	6	5.3	4.8
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	20	22	19	16	16	20	22	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	29	29	30	29	28	28	28	26
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
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	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	250	250	250	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	681.0 N @ 150 km/h (153.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	368.0 N @ 150 km/h (82.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	723.0 N @ 150 km/h (162.5 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	540 mm 21.26 in
Depth, packed	275 mm 10.827 in
Length, packed	2760 mm 108.661 in
Weight, gross	53.1 kg 117.065 lb

Regulatory Compliance/Certifications

10P-4L6M-D5-V2

Agency

ISO 9001:2015

UK-ROHS

Classification

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

Compliant

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance