

#### 60-port sector antenna, 12x 617-960MHz, 24x 1695-2690MHz 65° HPBW and 24x 3300-3800 MHz, 90° HPBW, 15x RET

- Separated Extension KIT available for this antenna, check Optional Mounting Kits section
- No pole mounting kit for this antenna

#### General Specifications

Antenna Type	DualPol® tri-sector
Band	Multiband
Calibration Connector Interface	M-LOC
Calibration Connector Quantity	3
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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female   M-LOC
RF Connector Location	Bottom
RF Connector Quantity, high band	24
RF Connector Quantity, mid band	24
RF Connector Quantity, low band	12
RF Connector Quantity, total	60

#### Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2		
RET Interface, quantity	3 female   3 male		
Internal RET	High band (3)   Low band (6)   Mid band (6)		
Protocol	3GPP/AISG 2.0		

#### Dimensions

Length

2100 mm | 82.677 in

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#### **Outer Diameter**

580 mm | 22.835 in

# Array Layout

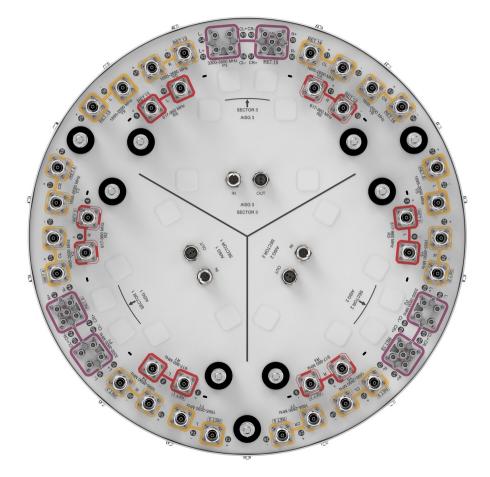
Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	617-960	1 - 2	1		CPxxxxxxxxxxxxxxR1	1
R2	617-960	3 - 4	2		CPxxxxxxxxxxxxxxR2	
Y1	1695-2690	13 - 14			CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX	Y1 Y4 Y5
Y4	1695-2690	19 - 20	3	AISG1	CPXXXXXXXXXXXXXXXXX	
Y2	1695-2690	15 - 16			CPxxxxxxxxxxxxxxX2	Y2 Y3
¥3	1695-2690	17 - 18	4		CPXXXXXXXXXXXXXXXXXXXXXX	
P1	3300-3800	37 - 44	5		CPxxxxxxxxxxxxxxxP1	
	617-960	5 - 6	6		CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX	
R4	617-960	7 - 8	7		CPxxxxxxxxxxxxxxR4	P1 82
Y5	1695-2690	21 - 22	8		CPxxxxxxxxxxxxxXXXXXXXY5	Sector1
Y8	1695-2690	27 - 28		AISG2		100.000 (00040)
Y6	1695-2690	23 - 24	9		CPxxxxxxxxxxxxxXXXXXXXXXXY6	
Y7	1695-2690	25 - 26				
P2	3300-3800	45 - 52	10		CPxxxxxxxxxxxxxxXP2	
	617-960	9 - 10	11		CPxxxxxxxxxxxxxxR5	
	617-960	11 - 12	12		CPxxxxxxxxxxxxxR6	]
Y9	1695-2690	29 - 30			CPxxxxxxxxxxxxxxXY9	
YC	1695-2690	35 - 36	13	AISG3	CI AAAAAAAAAAAAAAAAAAA	
YA	1695-2690	31 - 32	14		CPxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXXX	
YB	1695-2690	33 - 34				
P3	3300-3800	53 - 60	15	1	CPxxxxxxxxxxxxxxxP3	1

# Port Configuration



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### **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   3300 – 3800 MHz   617 – 960 MHz
Polarization	±45°
Total Input Power, maximum	2,400 W

### **Electrical Specifications**

	R1-R6	R1-R6	R1-R6	R1-R6
Frequency Band, MHz	617-694	694–790	790-890	890-960
RF Port	1-12	1-12	1-12	1-12
Beamwidth, Horizontal,	71	62	56	52

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degrees				
Beamwidth, Vertical, degrees	11.9	10.9	9.8	9.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	20	21	22	22
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter- band, dB	25	25	25	25
VSWR   Return Ioss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, typical, 2 x 20 W, dBc	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	250

# Electrical Specifications, BASTA

Frequency Band, MHz	617–694	694–790	790-890	890-960
Gain by all Beam Tilts, average, dBi	13	13.6	14.3	14.8

### **Electrical Specifications**

	Y1,Y2,Y5,Y6,Y9,YA	Y1,Y2,Y5,Y6,Y9,YA	Y1,Y2,Y5,Y6,Y9,YA
Frequency Band, MHz	1695–1920	1920–2180	2490-2690
RF Port	13,14,19,20,21,22,27,28,29,30,3	5,36 13,14,19,20,21,22,27,28,29,30,35,	36 13,14,19,20,21,22,27,28,29,30,35,36
Beamwidth, Horizontal, degrees	73	63	56
Beamwidth, Vertical, degrees	7.9	7.1	5.7

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Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	17
Front-to-Back Total Power at 180° ± 30°, dB	24	23	22
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter- band, dB	25	25	25
VSWR   Return Ioss, dB	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, typical, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	150

## Electrical Specifications, BASTA

Frequency Band, MHz	1695–1920	1920–2180	2490-2690
Gain by all Beam Tilts, average, dBi	15.6	16.5	17.1

# **Electrical Specifications**

	Y3,Y4,Y7,Y8,YB,YC	Y3,Y4,Y7,Y8,YB,YC	Y3,Y4,Y7,Y8,YB,YC
Frequency Band, MHz	1695–1920	1920-2180	2490-2690
RF Port	15-18,23-26,31-34	15-18,23-26,31-34	15-18,23-26,31-34
Beamwidth, Horizontal, degrees	65	60	55
Beamwidth, Vertical, degrees	7.9	7	5.7
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	15	19	19

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Front-to-Back Total Power at 180° ± 30°, dB	24	27	24
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter- band, dB	25	25	25
VSWR   Return Ioss, dB	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, typical, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	150

### Electrical Specifications, BASTA

Frequency Band, MHz	1695–1920	1920–2180	2490-2690
Gain by all Beam Tilts, average, dBi	15.2	16.3	17

# **Electrical Specifications**

	P1-P3	P1-P3
Frequency Band, MHz	3300-3600	3600-3800
RF Port	37-60	37-60
Beamwidth, Horizontal, degrees	84	82
Beamwidth, Vertical, degrees	6.4	6
Beam Tilt, degrees	2-12	2-12
USLS (First Lobe), dB	14	15
Front-to-Back Total Power at 180° ± 30°, dB	22	23
Coupling level, Amp, Antenna	26	26

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#### port to Cal port,

dB		
Coupling level, max Amp Δ, Antenna port to Cal port, dB	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB	0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees	7	7
Isolation, Cross Polarization, dB	25	25
Isolation, Inter- band, dB	25	25
Isolation, Co- polarization, dB	19	19
VSWR   Return Ioss, dB	1.5   14.0	1.5 14.0
PIM, 3rd Order, typical, 2 x 20 W, dBc	-145	-145
Input Power per Port at 50°C, maximum, watts	75	75

# Electrical Specifications, BASTA

Frequency Band, MHz	3300-3600	3600-3800
Gain by all Beam Tilts, average, dBi	14.8	15.2

# Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	16.6	16.4
Beamwidth, Horizontal, degrees	65	65

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Beamwidth, Horizontal at 10 dB, degrees	115	110
Beamwidth, Vertical, degrees	6.2	6.1
Front-to-Back Total Power at 180° ± 30°, dB	25	25
USLS (First Lobe), dB	18	21

### Electrical Specifications, Service Beam

Frequency Band, MHz	3300-3600	3600-3800
Steered 0° Gain, dBi	19.9	20.6
Steered 0° Beamwidth, Horizontal, degrees	26	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	28	31
Steered 30° Gain, dBi	19.3	19.3
Steered 30° Beamwidth, Horizontal, degrees	29	29
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	36	35

## Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	19.1	19.3
Beamwidth, Horizontal, degrees	32	31

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Front-to-Back Total Power at 180° ± 30°, dB	27	28
Horizontal Sidelobe, dB	16	19

### Mechanical Specifications

Wind Loading @ Velocity, frontal	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

#### Packaging and Weights

Width, packed	714 mm   28.11 in
Depth, packed	692 mm   27.244 in
Length, packed	2537 mm   99.882 in
Weight, gross	120 kg   264.554 lb

#### Regulatory Compliance/Certifications

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

### \* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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