

# 60-port sector antenna, 12x 617-960MHz, 24x 1695-2690MHz 65° HPBW and 24x 3300-4000 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

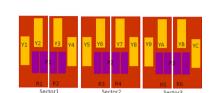
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ANDREW an Amphenol company

Net Weight, antenna only	98.5 kg   217.155 lb
Outer Diameter	580 mm   22.835 in

### Array Layout

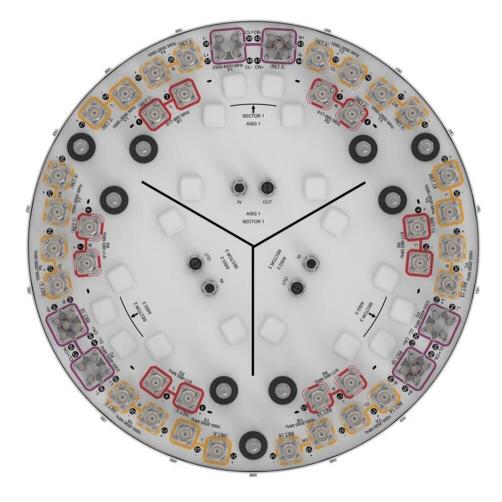
Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-960	1 - 2	1		CPxxxxxxxxxxxxxxxR1
R2	617-960	3 - 4	2	] [	CPxxxxxxxxxxxxxxxR2
Y1	1695-2690	13 - 14		] [	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
¥4	1695-2690	19 - 20	3	AISG1	CPXXXXXXXXXXXXXXXXX
Y2	1695-2690	15 - 16		] [	CDaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Y3	1695-2690	17 - 18	4		CPxxxxxxxxxxxxxxxX2
P1	3300-4000	37 - 44	5	1	CPxxxxxxxxxxxxxxxP1
R3	617-960	5 - 6	6		CPxxxxxxxxxxxxxxR3
R4	617-960	7 - 8	7	] [	CPxxxxxxxxxxxxxx
Y5	1695-2690	21 - 22	8	1 [	CPxxxxxxxxxxxxxxX
Y8	1695-2690	27 - 28		AISG2	
Y6	1695-2690	23 - 24	9	1 [	CPxxxxxxxxxxxxxXX
Y7	1695-2690	25 - 26			
P2	3300-4000	45 - 52	10		CPxxxxxxxxxxxxxx
R5	617-960	9 - 10	11		CPxxxxxxxxxxxxxx
R6	617-960	11 - 12	12	] [	CPxxxxxxxxxxxxxxR6
Y9	1695-2690	29 - 30		1	CPxxxxxxxxxxxxxxx
YC	1695-2690	35 - 36	13	AISG3	CFXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
YA	1695-2690	31 - 32	14	]	CPxxxxxxxxxxxxxXXX
YB	1695-2690	33 - 34			
P3	3300-4000	53 - 60	15	1	CPxxxxxxxxxxxxxxXP3



### Port Configuration







### **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   3300 – 4000 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,	72	63	56	52

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degrees				
Beamwidth, Vertical, degrees	12	11	9.8	9.2
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	17	18	17
Front-to- Back Total Power at 180° ± 30°, dB	20	21	22	22
Isolation, Cross Polarization, dB	25	25	25	25
lsolation, Inter-band, dB	25	25	25	25
VSWR∣ Return loss, 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**

	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	13,14,19,20,21,22,27,28,29,30,35,3	6 13,14,19,20,21,22,27,28,29,30,35,3	6 13,14,19,20,21,22,27,28,29,30,35,36
Beamwidth, Horizontal, degrees	76	67	56
Beamwidth, Vertical, degrees	8	7.2	5.8

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Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	19
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 loss, 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**

	Y3,Y4,Y7,Y8,YB,YC	Y3,Y4,Y7,Y8,YB,YC	Y3,Y4,Y7,Y8,YB,YC	P1-P3	P1-P3
Frequency Band, MHz	1695–1920	1920–2180	2490–2690	3300-360	03600-4000
RF Port	15-18,23-26,31-34	15-18,23-26,31-34	15-18,23-26,31-34	37-60	37-60
Beamwidth, Horizontal, degrees	64	60	55	76	65
Beamwidth, Vertical, degrees	7.9	7	5.8	6.4	5.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	19	19	14	15

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Front-to- Back Total Power at 180° ± 30°, dB	26	27	26	24	23
Coupling level, Amp, Antenna port to Cal port, dB				26	26
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
lsolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25
Isolation, Co- polarization, dB				19	19
VSWR   Return loss, dB	1.5   14.0	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	-145	-145
Input Power	200	200	150	75	75 Page 6 of 9



per Port at 50°C, maximum, watts

### Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-360	03600-4000
Gain, dBi	16.8	16.4
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Horizontal at 10 dB, degrees	114	106
Beamwidth, Vertical, degrees	6.2	6
Front-to- Back Total Power at 180° ± 30°, dB	26	25
USLS (First Lobe), dB	18	20
Electrical Specifications, Service Beam		
Frequency Band, MHz	3300-360	003600-4000
Steered 0° Gain dBi	19.7	20.4

Gain, dBi		
Steered 0°	26	25
Beamwidth,		
Horizontal,		
degrees		
Steered 0°	30	29
Front-to-		
Back Total		
Power at		
180° ± 30°,		
dB		
Steered 30°	19.1	19.4
Gain, dBi		

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Steered 30° Beamwidth, Horizontal,	29	27
degrees Steered 30° Front-to-	28	27
Back Total Power at 180° ± 30°,		

dB

### Electrical Specifications, Soft Split

Frequency Band, MHz	3300-360	003600-4000
Gain, dBi	19.1	19.4
Beamwidth, Horizontal, degrees	32	29
Front-to- Back Total Power at 180° ± 30°, dB	29	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	750 mm   29.528 in
Depth, packed	690 mm   27.165 in
Length, packed	2510 mm   98.819 in
Weight, gross	120 kg   264.554 lb

### Regulatory Compliance/Certifications

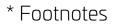
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#### Classification

CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant





Performance Note Severe environmental conditions may degrade optimum performance



