

24-port tri-sector Antenna, 3 planar arrays pointing 0-120-240 degrees, 3300–4000 MHz, 90° HPBW, 3x RET

- Designed for beamforming, includes calibration port
- Trisector, three 4-column beamforming arrays
- Three DualPol® antennas under one radome
- Fully integrated flange mounting system for ease of installation
- Ideal concealment solution for areas with special regulations regarding visual impact
- Includes M-LOC type cluster connector(s)

General Specifications

Antenna Type DualPol® tri-sector

Band Single band

Calibration Connector Interface M-LOC

Calibration Connector Quantity 3

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material ASA, UV stabilized

Reflector Material Aluminum
RF Connector Interface M-LOC
RF Connector Location Bottom

RF Connector Quantity, high band 24
RF Connector Quantity, total 24

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 High band (3)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

COMMSC PE®

Protocol 3GPP/AISG 2.0

Dimensions

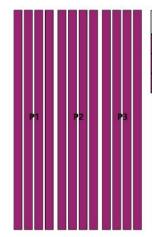
Length 880 mm | 34.646 in

Net Weight, without mounting kit 21.9 kg | 48.281 lb

Outer Diameter 370 mm | 14.567 in

TDD Column Spacing 41 mm | 1.614 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
P1	3300-4000	1 - 8	1	AISG1	CPxxxxxxxxxxxxxxXP1
P2	3300-4000	9 - 16	2	AISG1	CPxxxxxxxxxxxxxxP2
P3	3300-4000	17 - 24	3	AISG1	CPxxxxxxxxxxxxxxP3

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 3300 – 4000 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 $^{\circ}$ C

Electrical Specifications

Frequency Band, MHz	3300-3600	3600-4000
Gain, dBi	15.2	15.7
Beamwidth, Horizontal, degrees	100	90
Beamwidth, Vertical, degrees	6.4	6
Beam Tilt, degrees	2-12	2-12
USLS (First Lobe), dB	15	15
Front-to-Back Ratio at 180°, dB	30	31
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

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Coupler, max Phase Δ , Antenna port to Cal port, degrees	7	7
Isolation, Cross Polarization, dB	25	25
Isolation, Inter-band, dB	19	19
Isolation, Co-polarization, dB	19	19
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 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	3600-4000
Gain by all Beam Tilts, average, dBi	14.6	15
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.8
Beamwidth, Horizontal Tolerance, degrees	±11.8	±10.2
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	13	12
Front-to-Back Total Power at 180° ± 30°, dB	26	26
CPR at Boresight, dB	17	18
CPR at Sector, dB	9	9
Electrical Specifications, Broadcast 65°		
Frequency Band, MHz	3300-3600	3600-4000
Gain, dBi	17.6	17.9
Beamwidth, Horizontal, degrees	65	64
Beamwidth, Vertical, degrees	6.5	6
Front-to-Back Total Power at 180° ± 30°, dB	30	29
USLS (First Lobe), dB	19	18
Electrical Specifications, Service Beam		
Frequency Band, MHz	3300-3600	3600-4000
Steered 0° Gain, dBi	20.6	21
Steered 0° Beamwidth, Horizontal, degrees	27	25
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	33	33
Steered 0° Horizontal Sidelobe, dB	13	12
Steered 0° USLS (First Lobe), dB	21	21
Steered 30° Gain, dBi	20	20.3
Steered 30° Beamwidth, Horizontal, degrees	29	27

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Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	32	31
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Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3600	3600-4000
Gain, dBi	19.7	19.8
Beamwidth, Horizontal, degrees	33	32
Front-to-Back Total Power at 180° ± 30°, dB	32	31
Horizontal Sidelobe, dB	18	19
USLS (First Lobe), dB	20	21

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.17 m ² 1.83 ft ²
Effective Projective Area (EPA), lateral	0.17 m ² 1.83 ft ²
Wind Loading @ Velocity, frontal	186.0 N @ 150 km/h (41.8 lbf @ 150

 Wind Loading @ Velocity, frontal
 186.0 N @ 150 km/h (41.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 186.0 N @ 150 km/h (41.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 186.0 N @ 150 km/h (41.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 186.0 N @ 150 km/h (41.8 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed	478 mm 18.819 in
Depth, packed	464 mm 18.268 in
Length, packed	1169 mm 46.024 in
Weight, gross	26.6 kg 58.643 lb

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSAbove maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliant/ExemptedUK-ROHSCompliant/Exempted







* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance