

V4S4-360S-BF2



16-port small cell antenna, 8x 1695-2690, 8x 3300-4000 MHz, 360° Horizontal Beamwidth, fixed tilt.

- Two broadband mid band arrays (Bands 25/66/30/40/41) with 4T4R (4X MIMO) capability
- 8T8R omni beamforming array with calibration port for 3.5 GHz (Bands 48, 77, 78)

General Specifications

Antenna Type	Small Cell
Band	Multiband
Calibration Connector Interface	4.3-10 Female
Calibration Connector Quantity	1
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	ASA, UV stabilized
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	0
RF Connector Quantity, total	16

Dimensions

Length	610 mm 24.016 in
Net Weight, antenna only	13.6 kg 29.983 lb
Outer Diameter	370 mm 14.567 in

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 4000 MHz
Polarization	±45°
Total Input Power, maximum	800 W

Electrical Specifications

	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	P1-P4	P1-P4	P1-P4
Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2496–2690	3300–3550	3550–3700	3700–4000
RF Port	1-8	1-8	1-8	1-8	1-8	9-16	9-16	9-16
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360	360

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Beamwidth, Vertical, degrees	20.6	20.3	18.6	16.3	15.9	9.8	9.2	8.6
Beam Tilt, degrees	2	2	2	2	2	2	2	2
Coupling level, Amp, Antenna port to Cal port, dB						26	26	26
Coupling level, max Amp Δ, Antenna port to Cal port, dB						±2	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB						1	1	1
Coupler, max Phase Δ, Antenna port to Cal port, degrees						10	10	10
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28	28
Isolation, Co-polarization, dB						15	15	15
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	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	150	150	150	150	150	100	100	100

Electrical Specifications, Service Beam

Frequency Band, MHz	3300–3550	3550–3700	3700–4000
Steered 0° Gain, dBi	14.3	14.6	14.9
Steered 0° Beamwidth, Horizontal, degrees	60	58	58

Electrical Specifications, Broadcast 360°

Frequency Band, MHz	3300–3550	3550–3700	3700–4000
Gain, dBi	10.3	9.9	10.3
Beamwidth, Horizontal at 3 dB, degrees	360	360	360
Beamwidth, Vertical, degrees	9.8	9	8.8

Mechanical Specifications

Wind Loading @ Velocity, frontal	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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Packaging and Weights

Width, packed	478 mm 18.819 in
Depth, packed	464 mm 18.268 in
Length, packed	894 mm 35.197 in
Weight, gross	18.6 kg 41.006 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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