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, 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

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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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