

# 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

<b>Antenna Type</b>	Small Cell
<b>Band</b>	Multiband
<b>Calibration Connector Interface</b>	4.3-10 Female
<b>Calibration Connector Quantity</b>	1
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	ASA, UV stabilized
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	8
<b>RF Connector Quantity, mid band</b>	8
<b>RF Connector Quantity, total</b>	16

## Dimensions

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

## Port Configuration

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## Electrical Specifications

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

## Electrical Specifications

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

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<b>Beamwidth, Vertical, degrees</b>	20.6	20.3	18.6	16.3	15.9	9.8	9.2	8.6
<b>Beam Tilt, degrees</b>	2	2	2	2	2	2	2	2
<b>Coupling level, Amp, Antenna port to Cal port, dB</b>						26	26	26
<b>Coupling level, max Amp <math>\Delta</math>, Antenna port to Cal port, dB</b>						$\pm 2$	$\pm 2$	$\pm 2$
<b>Coupler, max Amp <math>\Delta</math>, Antenna port to Cal port, dB</b>						1	1	1
<b>Coupler, max Phase <math>\Delta</math>, Antenna port to Cal port, degrees</b>						10	10	10
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	28	28	28	28	28	28	28	28
<b>Isolation, Co-polarization, dB</b>						15	15	15
<b>VSWR   Return loss, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-145	-145	-145
<b>Input Power per Port at 50°C, maximum, watts</b>	150	150	150	150	150	100	100	100

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2496–2690</b>	<b>3300–3550</b>	<b>3550–3700</b>	<b>3700–4000</b>
<b>Gain by all Beam Tilts, average, dBi</b>	7.8	8.3	8.9	8.3	8.3	10	9.9	10.1
<b>Gain by all Beam Tilts Tolerance, dB</b>	$\pm 0.6$	$\pm 0.9$	$\pm 0.7$	$\pm 0.6$	$\pm 1$	$\pm 0.4$	$\pm 0.6$	$\pm 0.6$
<b>Beamwidth, Vertical Tolerance, degrees</b>	$\pm 1.3$	$\pm 1.2$	$\pm 1.8$	$\pm 0.9$	$\pm 1.7$	$\pm 0.5$	$\pm 0.5$	$\pm 0.6$

## Electrical Specifications, Service Beam

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

## Electrical Specifications, Broadcast 360°

<b>Frequency Band, MHz</b>	<b>3300–3550</b>	<b>3550–3700</b>	<b>3700–4000</b>
<b>Gain, dBi</b>	10.3	9.9	10.3
<b>Beamwidth, Horizontal at 3 dB, degrees</b>	360	360	360

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<b>Beamwidth, Vertical, degrees</b>	9.8	9	8.8
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## Mechanical Specifications

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

## Packaging and Weights

<b>Width, packed</b>	478 mm   18.819 in
<b>Depth, packed</b>	464 mm   18.268 in
<b>Length, packed</b>	894 mm   35.197 in
<b>Weight, gross</b>	18.6 kg   41.006 lb

## Regulatory Compliance/Certifications

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

## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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