

# 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, low band</b>  | 0  |
| <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, 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              |
| <b>Beamwidth, Vertical, degrees</b>           | 9.8              | 9                | 8.8              |

## 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)                       |

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## 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 |
|-------------------------|---|