

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, BASTA

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

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 |

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) |

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|--------------------------------------|--|
| Wind Loading @ Velocity, rear | 129.0 N @ 150 km/h (29.0 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 | 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

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| Performance Note | Severe environmental conditions may degrade optimum performance |
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