

10-port small cell antenna, 4x 1695–2690, 4x 3400-3800 and 2x 5150-5925 MHz. 65° HPBW, Internal RET and SBT

OBSOLETE

 This product was discontinued on: November 30, 2023

 Replaced By:

 VVSSP-65S-R1BV2-V4
 10-port small cell antenna, 4x 1695–2690, 4x 3300-4200 and 2x 5150-5925 MHz. 65° HPBW, Internal RET and SBT

General Specifications

| Antenna Type | Small Cell |
|----------------------------------|----------------------------------------------------------------------------------|
| Band | Multiband |
| 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 | PVC, UV resistant |
| 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 | 10 |
| RF Connector Quantity, total | 10 |

Remote Electrical Tilt (RET) Information

| RET Interface | 8-pin DIN Male |
|-------------------------|----------------|
| RET Interface, quantity | 1 male |
| Input Voltage | 10-30 Vdc |
| Internal Bias Tee | Port 1 |
| Internal RET | High band (1) |

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| Power Consumption, active state, maximum | 1 W |
|------------------------------------------|----------------------------|
| Power Consumption, idle state, maximum | 10 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |
| Dimensions | |
| Width | 305 mm 12.008 in |
| Depth | 118 mm 4.646 in |
| Length | 600 mm 23.622 in |
| Net Weight, antenna only | 6.9 kg 15.212 lb |
| | |

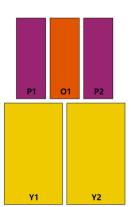
5 GHz Port Power Table

| 5 GHz FCC Power Requirements | | | | |
|------------------------------------------------------------------------|-------------|-------------|-------------|-------------|
| U-NII Band | U-NII 1 | U-NII 2A | U-NII 2C | U-NII 3 |
| Frequency (MHz) | 5150 - 5250 | 5250 - 5350 | 5470 - 5725 | 5725 - 5850 |
| Max Input power per port to align with FCC Title 47 Part 15 (Watts) | 0.5 | 0.125 | 0.125 | 0.5 |

Array Layout

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| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|---------------|----------|---------------------|
| Y1 | 1695-2690 | 1 - 2 | 1 | AISG1 | ARxxxxxxxxxxxxxxx1 |
| Y2 | 1695-2690 | 3 - 4 | | AISGT | ARXXXXXXXXXXXXXXXXX |
| P1 | 3400-3800 | 5 - 6 | | | |
| P2 | 3400-3800 | 7 - 8 | N/A | NA | N/A |
| 01 | 5150-5925 | 9 - 10 | | | |

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

| Impedance | 50 ohm |
|----------------------------|-----------------------------------------------------|
| Operating Frequency Band | 1695 – 2690 MHz 3400 – 3800 MHz 5150 – 5925 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 300 W @ 50 °C |

Electrical Specifications

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| Frequency Band, MHz | 1695-1920 | 1920-2200 | 2300-2690 | 3400-3800 | 5150-5925 |
|-------------------------------------------------|------------|------------|------------|------------|------------|
| Gain, dBi | 12.6 | 13.1 | 13.5 | 10.4 | 4.6 |
| Beamwidth, Horizontal, degrees | 70 | 72 | 65 | 69 | 60 |
| Beamwidth, Vertical, degrees | 20.7 | 18.1 | 15.6 | 34.1 | 26.1 |
| Beam Tilt, degrees | 2-10 | 2-10 | 2-10 | 4 | 4 |
| USLS (First Lobe), dB | 14 | 18 | 16 | 15 | 11 |
| Front-to-Back Ratio at 180°, dB | 26 | 24 | 29 | 27 | 30 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 28 | 28 | 28 | 28 | 28 |
| VSWR Return loss, dB | 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 | -150 | | |
| Input Power per Port at 50°C, maximum, watts | 75 | 75 | 75 | 35 | 5 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 1695–1920 | 1920-2200 | 2300-2690 | 3400-3800 | 5150-5925 |
|---------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------|-----------|
| Gain by all Beam Tilts, average, dBi | 12.3 | 12.7 | 12.9 | 9.8 | 3.3 |
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.6 | ±0.7 | ±0.6 | ±1.9 |
| Gain by Beam Tilt, average, dBi | 2 ° 12.1 6 ° 12.3 10 ° 12.4 | 2 ° 12.5 6 ° 12.8 10 ° 12.9 | 2 ° 12.5 6 ° 13.0 10 ° 13.3 | | |
| Beamwidth, Horizontal Tolerance, degrees | ±6.8 | ±6.7 | ±4.5 | ±11 | ±16 |
| Beamwidth, Vertical Tolerance, degrees | ±2 | ±1.7 | ±1.6 | ±4.3 | ±2 |
| Front-to-Back Total Power at 180° ± 30°, dB | 24 | 21 | 24 | 18 | 23 |
| CPR at Boresight, dB | 22 | 16 | 15 | 14 | 10 |
| CPR at Sector, dB | 12 | 10 | 8 | 5 | 0 |

Mechanical Specifications

| Wind Loading @ Velocity, frontal | 198.0 N @ 150 km/h (44.5 lbf @ 150 km/h) |
|----------------------------------|------------------------------------------|
| Wind Loading @ Velocity, lateral | 37.0 N @ 150 km/h (8.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 240.0 N @ 150 km/h (54.0 lbf @ 150 km/h) |

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| Wind Speed, maximum | 241 km/h (150 mph) |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging and V | Veights |
| Width, packed | 404 mm 15.906 in |
| Depth, packed | 276 mm 10.866 in |
| Length, packed | 772 mm 30.394 in |
| Weight, gross | 9.4 kg 20.723 lb |
| Regulatory Com | pliance/Certifications |
| Agency | Classification |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| 150 9001:2015 | |
| Included Produc | ts |
| BSAMNT-3 | Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set. |
| * Footnotes | |

Performance Note Severe environmental conditions may degrade optimum performance

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