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

Electrical Specifications

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Gain, dBi</td>
<td>12.6</td>
<td>13.0</td>
<td>13.5</td>
<td>10.4</td>
<td>4.6</td>
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<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>70</td>
<td>70</td>
<td>65</td>
<td>69</td>
<td>60</td>
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<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>20.7</td>
<td>17.8</td>
<td>15.6</td>
<td>34.1</td>
<td>26.1</td>
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<tr>
<td>Beam Tilt, degrees</td>
<td>2–10</td>
<td>2–10</td>
<td>2–10</td>
<td>7</td>
<td>4</td>
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<tr>
<td>USLS (First Lobe), dB</td>
<td>14</td>
<td>17</td>
<td>16</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>26</td>
<td>25</td>
<td>29</td>
<td>27</td>
<td>30</td>
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<tr>
<td>Isolation, Cross Polarization, dB</td>
<td>25</td>
<td>25</td>
<td>25</td>
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<tr>
<td>Isolation, Inter-band, dB</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
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<tr>
<td>VSWR</td>
<td>Return Loss, dB</td>
<td>1.5</td>
<td>14.0</td>
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<td>14.0</td>
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<td>PIM, 3rd Order, 2 x 20 W, dBc</td>
<td>-153</td>
<td>-153</td>
<td>-150</td>
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<td>Input Power per Port at 50°C, maximum, watts</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>35</td>
<td>5</td>
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<tr>
<td>Polarization</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
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<tr>
<td>Impedance</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
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</table>

Electrical Specifications, BASTA*

<table>
<thead>
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<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>12.3</td>
<td>12.6</td>
<td>12.9</td>
<td>9.8</td>
<td>3.3</td>
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<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.4</td>
<td>±0.5</td>
<td>±0.7</td>
<td>±0.6</td>
<td>±1.9</td>
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<tr>
<td>Gain by Beam Tilt, average, dBi</td>
<td>2°</td>
<td>12.1</td>
<td>2°</td>
<td>12.3</td>
<td>2°</td>
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<tr>
<td>6°</td>
<td>12.3</td>
<td>6°</td>
<td>12.6</td>
<td>6°</td>
<td>13.0</td>
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<tr>
<td>10°</td>
<td>12.4</td>
<td>10°</td>
<td>12.7</td>
<td>10°</td>
<td>13.3</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±6.8</td>
<td>±6.3</td>
<td>±4.5</td>
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<td>±16</td>
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<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±2</td>
<td>±2.1</td>
<td>±1.6</td>
<td>±4.3</td>
<td>±2</td>
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<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>24</td>
<td>21</td>
<td>24</td>
<td>18</td>
<td>23</td>
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<tr>
<td>CPR at Boresight, dB</td>
<td>22</td>
<td>20</td>
<td>15</td>
<td>14</td>
<td>10</td>
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<tr>
<td>CPR at Sector, dB</td>
<td>12</td>
<td>9</td>
<td>8</td>
<td>5</td>
<td>0</td>
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</tbody>
</table>

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

5 GHz Port Power Table

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Port Configuration

General Specifications

Operating Frequency Band
- 1695 – 2690 MHz
- 3400 – 3800 MHz
- 5150 – 5925 MHz

Antenna Type
- Small Cell

Band
- Multiband

Performance Note
- Outdoor usage

Total Input Power, maximum
- 300 W @ 50 °C

Mechanical Specifications

RF Connector Quantity, total
- 10

RF Connector Quantity, high band
- 10
VVSSP-65S-R1BV2

RF Connector Interface  4.3-10 Female
Grounding Type  RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material  Low loss circuit board
Radome Material  Fiberglass, UV resistant
Reflector Material  Aluminum
RF Connector Location  Bottom
Wind Loading, frontal  198.0 N @ 150 km/h  |  451.4 lbf @ 150 km/h
Wind Loading, lateral  37.0 N @ 150 km/h  |  8.3 lbf @ 150 km/h
Wind Speed, maximum  241 km/h  |  150 mph

Dimensions
Length  600.0 mm  |  23.6 in
Width  305.0 mm  |  12.0 in
Depth  118.0 mm  |  4.6 in
Net Weight, without mounting kit  6.9 kg  |  15.2 lb

Remote Electrical Tilt (RET) Information
Input Voltage  10–30 Vdc
Internal Bias Tee  Port 2
Internal RET  High band (1)
Power Consumption, active state, maximum  1 W
Power Consumption, idle state, maximum  10 W
Protocol  3GPP/AISG 2.0 (Single RET)
RET Interface  8-pin DIN Male
RET Interface, quantity  1 male

Packed Dimensions
Length  772.0 mm  |  30.4 in
Width  404.0 mm  |  15.9 in
Depth  276.0 mm  |  10.9 in
Shipping Weight  9.4 kg  |  20.7 lb

Regulatory Compliance/Certifications
Agency  Classification
RoHS 2011/65/EU  Compliant by Exemption
ISO 9001:2015  Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014  Above Maximum Concentration Value (MCV)
Included Products

**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
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.

General Specifications

**Application**
Outdoor

**Includes**
Brackets | Hardware

**Package Quantity**
1

Mechanical Specifications

**Color**
Silver

**Material Type**
Galvanized steel

**Dimensions**

**Compatible Diameter, maximum** 114.3 mm | 4.5 in

**Compatible Diameter, minimum** 61.0 mm | 2.4 in

**Net Weight** 6.2 kg | 13.7 lb

Regulatory Compliance/Certifications

**Agency**
RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

**Classification**
Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives