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>
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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>
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<tr>
<td>Isolation, Inter-band, dB</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>
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<td>35</td>
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<tr>
<td>Polarization</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
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<tr>
<td>Impedance</td>
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<td>50 ohm</td>
<td>50 ohm</td>
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</table>

Electrical Specifications, BASTA*

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<tr>
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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>
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<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±6.8</td>
<td>±6.3</td>
<td>±4.5</td>
<td>±11</td>
<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°</td>
<td>±30°, dB</td>
<td>24</td>
<td>21</td>
<td>24</td>
<td>18</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>
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</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
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

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

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
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