General Specifications

**Antenna Type**  
Sector

**Band**  
Multiband

**Color**  
Light gray

**Grounding Type**  
RF connector inner conductor and body grounded to reflector and mounting bracket

**Performance Note**  
Outdoor usage  |  Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN

**Radome Material**  
Fiberglass, UV resistant

**Radiator Material**  
Aluminum  |  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, low band**  
4

**RF Connector Quantity, total**  
12

Remote Electrical Tilt (RET) Information

**RET Hardware**  
CommRET v2

**RET Interface**  
8-pin DIN Female  |  8-pin DIN Male

**RET Interface, quantity**  
1 female  |  1 male

**Input Voltage**  
10–30 Vdc

**Internal RET**  
High band (2)  |  Low band (1)

**Power Consumption, idle state, maximum**  
2 W

**Power Consumption, normal conditions, maximum**  
10 W

**Protocol**  
3GPP/AISG 2.0 (Single RET)

Dimensions

640 mm  |  25.197 in
Width: 640 mm | 25.197 in
Depth: 235 mm | 9.252 in
Length: 2437 mm | 95.945 in
Net Weight, without mounting kit: 59.8 kg | 131.836 lb

Array Layout

<table>
<thead>
<tr>
<th>Array ID</th>
<th>Frequency (MHz)</th>
<th>RF Connector</th>
<th>RET (CORES)</th>
<th>AIGG No.</th>
<th>AIGG RET UID</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>617-894</td>
<td>1 - 2</td>
<td>1</td>
<td>AIGG1</td>
<td>CPxxxxxxxxxxxxxR1</td>
</tr>
<tr>
<td>R2</td>
<td>617-894</td>
<td>3 - 4</td>
<td>1</td>
<td>AIGG1</td>
<td>CPxxxxxxxxxxxxxR1</td>
</tr>
<tr>
<td>Y1</td>
<td>1695-2690</td>
<td>5 - 6</td>
<td>2</td>
<td>AIGG1</td>
<td>CPxxxxxxxxxxxxxY1</td>
</tr>
<tr>
<td>Y2</td>
<td>1695-2690</td>
<td>7 - 8</td>
<td>2</td>
<td>AIGG1</td>
<td>CPxxxxxxxxxxxxxY1</td>
</tr>
<tr>
<td>Y3</td>
<td>1695-2690</td>
<td>9 - 10</td>
<td>3</td>
<td>AIGG1</td>
<td>CPxxxxxxxxxxxxxY3</td>
</tr>
<tr>
<td>Y4</td>
<td>1695-2690</td>
<td>11 - 12</td>
<td>3</td>
<td>AIGG1</td>
<td>CPxxxxxxxxxxxxxY3</td>
</tr>
</tbody>
</table>

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

Port Configuration

Electrical Specifications
### Electrical Specifications

**Impedance**
- 50 ohm

**Operating Frequency Band**
- 1695 – 2690 MHz  |  617 – 894 MHz

**Polarization**
- ±45°

**Total Input Power, maximum**
- 900 W @ 50 °C

**Electrical Specifications**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain, dBi</strong></td>
<td>15.7</td>
<td>16.3</td>
<td>17.7</td>
<td>18.1</td>
<td>18.6</td>
<td>18.7</td>
<td>19.2</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal, degrees</strong></td>
<td>64</td>
<td>62</td>
<td>62</td>
<td>61</td>
<td>61</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical, degrees</strong></td>
<td>10.4</td>
<td>8.6</td>
<td>5.6</td>
<td>5.3</td>
<td>5</td>
<td>4.3</td>
<td>4</td>
</tr>
<tr>
<td><strong>Beam Tilt, degrees</strong></td>
<td>2–13</td>
<td>2–13</td>
<td>2–12</td>
<td>2–12</td>
<td>2–12</td>
<td>2–12</td>
<td>2–12</td>
</tr>
<tr>
<td><strong>USLS (First Lobe), dB</strong></td>
<td>18</td>
<td>17</td>
<td>19</td>
<td>18</td>
<td>20</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td><strong>Front-to-Back Ratio at 180°, dB</strong></td>
<td>29</td>
<td>32</td>
<td>33</td>
<td>31</td>
<td>30</td>
<td>30</td>
<td>31</td>
</tr>
<tr>
<td><strong>Isolation, Cross Polarization, dB</strong></td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td><strong>Isolation, Inter-band, dB</strong></td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>**VSWR</td>
<td>Return loss, dB**</td>
<td>1.5</td>
<td>14.0</td>
<td>1.5</td>
<td>14.0</td>
<td>1.5</td>
<td>14.0</td>
</tr>
<tr>
<td><strong>Input Power per Port at 50°C, maximum, watts</strong></td>
<td>250</td>
<td>250</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

**Electrical Specifications, BASTA**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain by all Beam Tilts, average, dBi</strong></td>
<td>15.5</td>
<td>15.8</td>
<td>17.3</td>
<td>17.7</td>
<td>18</td>
<td>18.3</td>
<td>18.6</td>
</tr>
<tr>
<td><strong>Gain by all Beam Tilts Tolerance, dB</strong></td>
<td>±0.4</td>
<td>±0.5</td>
<td>±0.5</td>
<td>±0.5</td>
<td>±0.6</td>
<td>±0.6</td>
<td>±0.7</td>
</tr>
<tr>
<td><strong>Gain by Beam Tilt, average, dBi</strong></td>
<td>2°</td>
<td>153</td>
<td>2°</td>
<td>15.7</td>
<td>2°</td>
<td>17.2</td>
<td>2°</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal Tolerance, degrees</strong></td>
<td>±3</td>
<td>±5</td>
<td>±4.4</td>
<td>±4.8</td>
<td>±5.7</td>
<td>±6.9</td>
<td>±10.1</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical Tolerance, degrees</strong></td>
<td>±0.6</td>
<td>±1.1</td>
<td>±0.3</td>
<td>±0.3</td>
<td>±0.4</td>
<td>±0.3</td>
<td>±0.2</td>
</tr>
<tr>
<td><strong>USLS, beampeak to 20° above beampeak, dB</strong></td>
<td>18</td>
<td>13</td>
<td>13</td>
<td>14</td>
<td>16</td>
<td>15</td>
<td>14</td>
</tr>
<tr>
<td><strong>Front-to-Back Total Power at</strong></td>
<td>22</td>
<td>22</td>
<td>27</td>
<td>26</td>
<td>24</td>
<td>25</td>
<td>24</td>
</tr>
</tbody>
</table>
180° ± 30°, dB
CPR at Boresight, dB 17 16 20 20 18 16 16
CPR at Sector, dB 9 8 6 5 4 5 7

Mechanical Specifications

Wind Loading @ Velocity, frontal 1,055.0 N @ 150 km/h (237.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum 1,433.0 N @ 150 km/h (322.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h)
Wind Speed, maximum 241 km/h  |  149.75 mph

Packaging and Weights

Width, packed 752 mm  |  29.606 in
Depth, packed 380 mm  |  14.961 in
Length, packed 2590 mm  |  101.969 in
Weight, gross 86.5 kg  |  190.7 lb

Regulatory Compliance/Certifications

Agency Classification
CHINA-ROHS Above maximum concentration value
ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
ROHS Compliant/Exempted

Included Products

BSAMNT-4 – 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.
BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor 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

**Color**
Silver

**Dimensions**

<table>
<thead>
<tr>
<th>Compatible Diameter, maximum</th>
<th>115 mm</th>
<th>4.528 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible Diameter, minimum</td>
<td>60 mm</td>
<td>2.362 in</td>
</tr>
</tbody>
</table>

**Material Specifications**

**Material Type**
Galvanized steel

**Packaging and Weights**

**Included**
Brackets | Hardware

**Packaging quantity**
1

**Weight, net**
6.6 kg | 14.55 lb

**Regulatory Compliance/Certifications**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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<tr>
<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
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<tr>
<td>ROHS</td>
<td>Compliant</td>
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</tbody>
</table>
Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

General Specifications

**Application**
Outdoor

**Color**
Silver

**Dimensions**

- **Compatible Diameter, maximum**: 114.3 mm | 4.5 in
- **Compatible Diameter, minimum**: 61 mm | 2.402 in

**Material Specifications**

- **Material Type**: Galvanized steel

**Packaging and Weights**

- **Included**: Brackets | Hardware
- **Packaging quantity**: 1
- **Weight, net**: 4.8 kg | 10.582 lb

**Regulatory Compliance/Certifications**

- **Agency**
  - CHINA-ROHS
  - ISO 9001:2015
  - REACH-SVHC
  - ROHS
- **Classification**
  - Below maximum concentration value
  - Designed, manufactured and/or distributed under this quality management system
  - Compliant as per SVHC revision on www.commscope.com/ProductCompliance
  - Compliant