10-port sector antenna, 2x 694–960 MHz 65° HPBW, 4x 1695–2690 MHz 65° HPBW and 2x 1695–2180 MHz 2x 33° HPBW, 5x RET with manual override. Bands cascaded SRET

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- All Internal RET actuators are connected in “Cascaded SRET” configuration

### Electrical Specifications

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Gain, dBi</td>
<td>16.2</td>
<td>16.5</td>
<td>16.7</td>
<td>17.5</td>
<td>18.2</td>
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<tr>
<td>Beam Centers, Horizontal, degrees</td>
<td>±31</td>
<td>±28</td>
<td>±31</td>
<td>±28</td>
<td>±31</td>
<td>±28</td>
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<td>Beamwidth, Horizontal, degrees</td>
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<td>68</td>
<td>62</td>
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<td>61</td>
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<td>Beamwidth, Vertical, degrees</td>
<td>10.1</td>
<td>8.9</td>
<td>8.3</td>
<td>7.5</td>
<td>7.6</td>
<td>7.7</td>
<td>5.5</td>
<td>6.9</td>
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<tr>
<td>Beam Tilt, degrees</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
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<tr>
<td>USLS (First Lobe), dB</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
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<tr>
<td>Null Fill, dB</td>
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<td>-20</td>
<td>-22</td>
<td>-22</td>
<td>-22</td>
<td>-22</td>
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<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>31</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td>38</td>
<td>38</td>
<td>28</td>
<td>33</td>
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<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>29</td>
<td>24</td>
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<tr>
<td>Isolation, Cross Polarization, dB</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>25</td>
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<tr>
<td>Isolation, Beam to Beam, dB</td>
<td>18</td>
<td>18</td>
<td>18</td>
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<td>VSWR</td>
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<td>PIM, 3rd Order, 2 x 20 W, dBc</td>
<td>-150</td>
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<td>-150</td>
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<tr>
<td>Input Power per Port, maximum, watts</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>250</td>
<td>250</td>
<td>250</td>
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<tr>
<td>Polarization</td>
<td>±45°</td>
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<td>±45°</td>
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<td>Impedance</td>
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<td>50 ohm</td>
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### Electrical Specifications, BASTA*

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<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>15.9</td>
<td>16.4</td>
<td>16.6</td>
<td>17.1</td>
<td>17.9</td>
<td>18.3</td>
<td>16.4</td>
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<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.5</td>
<td>±0.2</td>
<td>±0.2</td>
<td>±0.6</td>
<td>±0.4</td>
<td>±0.6</td>
<td>±1.2</td>
<td>±0.6</td>
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<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±0.8</td>
<td>±0.6</td>
<td>±1</td>
<td>±2.9</td>
<td>±2.8</td>
<td>±5.8</td>
<td>±2</td>
<td>±2.3</td>
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<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±0.6</td>
<td>±0.4</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.5</td>
<td>±0.4</td>
<td>±0.4</td>
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<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
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<tr>
<td>CPR at Boresight, dB</td>
<td>15</td>
<td>16</td>
<td>16</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>12</td>
<td>10</td>
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<tr>
<td>CPR at Sector, dB</td>
<td>11</td>
<td>11</td>
<td>13</td>
<td>11</td>
<td>11</td>
<td>8</td>
<td>7</td>
<td>5</td>
</tr>
</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.
Array Layout

<table>
<thead>
<tr>
<th>Array</th>
<th>Freq (MHz)</th>
<th>Comm</th>
<th>RET (SIRFT)</th>
<th>AISG RET UID</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>604-960</td>
<td>1-2</td>
<td>1</td>
<td>Allxxxxxxxxx1</td>
</tr>
<tr>
<td>B1</td>
<td>1695-2100</td>
<td>3-4</td>
<td>2</td>
<td>Allxxxxxxxxx2</td>
</tr>
<tr>
<td>B2</td>
<td>1695-2100</td>
<td>5-6</td>
<td>3</td>
<td>Allxxxxxxxxx3</td>
</tr>
<tr>
<td>Y1</td>
<td>1695-2600</td>
<td>7-8</td>
<td>4</td>
<td>Allxxxxxxxxx4</td>
</tr>
<tr>
<td>Y2</td>
<td>1695-2600</td>
<td>9-10</td>
<td>5</td>
<td>Allxxxxxxxxx5</td>
</tr>
</tbody>
</table>

View from the front of the antenna
(Sizes of colored boxes are not true depictions of array sizes)

General Specifications
Operating Frequency Band
1695 – 2180 MHz  |  1695 – 2690 MHz  |  694 – 960 MHz
Antenna Type
Sector
Band
Multiband
Performance Note
Outdoor usage

Mechanical Specifications
RF Connector Quantity, total 10
RF Connector Quantity, low band 2
RF Connector Quantity, high band 8
RF Connector Interface 7-16 DIN 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 493.0 N @ 150 km/h
110.8 lbf @ 150 km/h
Wind Loading, lateral 423.0 N @ 150 km/h
95.1 lbf @ 150 km/h
Wind Loading, maximum 1044.0 N @ 150 km/h
234.7 lbf @ 150 km/h
Wind Speed, maximum 241 km/h  |  150 mph

Dimensions
Length 2763.5 mm  |  108.8 in
Width 350.0 mm  |  13.8 in
Depth 208.0 mm  |  8.2 in
Net Weight, without mounting kit 46.1 kg  |  101.6 lb

Remote Electrical Tilt (RET) Information
Input Voltage 10–30 Vdc
Internal RET High band (4)  |  Low band (1)
Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W
Protocol 3GPP/AISG 2.0 (Single RET)
RET Interface 8-pin DIN Female  |  8-pin DIN Male
RET Interface, quantity 1 female  |  1 male

Packed Dimensions
Length: 2985.0 mm | 117.5 in
Width: 436.0 mm | 17.2 in
Depth: 320.0 mm | 12.6 in
Shipping Weight: 68.5 kg | 151.0 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)
CE | Compliant with the relevant CE product directives

Included Products

T-029-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note: Severe environmental conditions may degrade optimum performance
Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

General Specifications
Application: Outdoor
Includes: Brackets | Hardware
Package Quantity: 1

Mechanical Specifications
Color: Silver
Material Type: Galvanized steel
Mechanical Tilt: 0°–8°

Dimensions
Antenna-to-Pipe Distance: 85.0 mm | 3.3 in
Bracket-to-Bracket Distance: 1400.0 mm | 55.1 in
Compatible Diameter, maximum: 115.0 mm | 4.5 in
Compatible Diameter, minimum: 60.0 mm | 2.4 in
Compatible Length, maximum: 2850.0 mm | 112.2 in
Compatible Length, minimum: 1500.0 mm | 59.1 in
Net Weight: 6.0 kg | 13.2 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