



## DBXLH-6565D-VTM

**Andrew® Dual Band Antenna, 824–960 MHz and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible**

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Optimized for 3G application in the 800 and 900 MHz bands with exceptional sidelobe suppression

### **OBSOLETE**

**This product was discontinued on: December 31, 2015**

#### **Replaced By**

CV65CSX-M  
CV65CSX-2X2

Andrew® Dual Band Antenna, 790–960 MHz and 1710–2690 MHz, 65° horizontal beamwidth, RET compatible

## Electrical Specifications

| Frequency Band, MHz                  | 824–896    | 870–960    | 1710–1880  | 1850–1990  | 1920–2180  |
|--------------------------------------|------------|------------|------------|------------|------------|
| Gain, dBi                            | 16.0       | 16.6       | 18.2       | 18.4       | 18.0       |
| Beamwidth, Horizontal, degrees       | 71         | 68         | 62         | 63         | 62         |
| Beamwidth, Vertical, degrees         | 9.3        | 9.1        | 4.9        | 4.7        | 4.4        |
| Beam Tilt, degrees                   | 0–11       | 0–11       | 0–6        | 0–6        | 0–6        |
| USLS (First Lobe), dB                | 15         | 15         | 15         | 15         | 15         |
| Front-to-Back Ratio at 180°, dB      | 25         | 25         | 30         | 30         | 30         |
| Isolation, dB                        | 30         | 30         | 30         | 30         | 30         |
| Isolation, Intersystem, dB           | 30         | 30         | 30         | 30         | 30         |
| VSWR   Return Loss, dB               | 1.4   15.6 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc        | -150       | -150       | -150       | -150       | -150       |
| Input Power per Port, maximum, watts | 350        | 350        | 350        | 350        | 350        |
| Polarization                         | ±45°       | ±45°       | ±45°       | ±45°       | ±45°       |
| Impedance                            | 50 ohm     | 50 ohm     | 50 ohm     | 50 ohm     | 50 ohm     |

## Electrical Specifications, BASTA\*

| Frequency Band, MHz                         | 824–896     | 870–960     | 1710–1880  | 1850–1990  | 1920–2180  |
|---|-------------|-------------|------------|------------|------------|
| Gain by all Beam Tilts, average, dBi        | 15.8        | 16.1        | 17.8       | 17.7       | 17.6       |
| Gain by all Beam Tilts Tolerance, dB        | ±0.5        | ±0.4        | ±0.4       | ±0.3       | ±0.4       |
|   | 0 °   15.8  | 0 °   16.2  | 0 °   17.9 | 0 °   17.8 | 0 °   17.6 |
| Gain by Beam Tilt, average, dBi             | 6 °   15.8  | 6 °   16.1  | 3 °   17.8 | 3 °   17.8 | 3 °   17.7 |
|   | 11 °   15.3 | 11 °   15.6 | 6 °   17.5 | 6 °   17.4 | 6 °   17.2 |
| Beamwidth, Horizontal Tolerance, degrees    | ±2.6        | ±2.8        | ±4.6       | ±3.2       | ±3.8       |
| Beamwidth, Vertical Tolerance, degrees      | ±0.5        | ±0.5        | ±0.3       | ±0.3       | ±0.3       |
| USLS, beampeak to 20° above beampeak, dB    | 17          | 16          | 16         | 16         | 15         |
| Front-to-Back Total Power at 180° ± 30°, dB | 21          | 21          | 26         | 27         | 26         |
| CPR at Boresight, dB                        | 22          | 23          | 16         | 16         | 15         |
| CPR at Sector, dB                           | 15          | 11          | 7          | 7          | 4          |

\* 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.](#)

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## General Specifications

|                          |                                 |
|--------------------------|---------------------------------|
| Antenna Brand            | Andrew®                         |
| Antenna Type             | DualPol® multiband              |
| Band                     | Multiband                       |
| Brand                    | DualPol®   Teletilt®            |
| Operating Frequency Band | 1710 – 2180 MHz   824 – 960 MHz |
| Performance Note         | Outdoor usage                   |

## Mechanical Specifications

|                              |  |
|------------------------------|--|
| Color                        | Light gray                                 |
| Lightning Protection         | dc Ground                                  |
| Radiator Material            | Aluminum   Low loss circuit board          |
| Radome Material              | PVC, UV resistant                          |
| RF Connector Interface       | 7-16 DIN Female                            |
| RF Connector Location        | Bottom                                     |
| RF Connector Quantity, total | 4  |
| Wind Loading, maximum        | 793.0 N @ 150 km/h<br>178.3 lbf @ 150 km/h |
| Wind Speed, maximum          | 201 km/h   125 mph                         |

## Dimensions

|            |                     |
|------------|---------------------|
| Depth      | 132.0 mm   5.2 in   |
| Length     | 2253.0 mm   88.7 in |
| Width      | 269.0 mm   10.6 in  |
| Net Weight | 21.5 kg   47.4 lb   |

## Remote Electrical Tilt (RET) Information

|  |                 |
|--|-----------------|
| Model with Factory Installed AISG 2.0 Actuator | DBXLH-6565D-A2M |
| RET System                                     | Teletilt®       |

## Packed Dimensions

|                 |                      |
|-----------------|----------------------|
| Depth           | 267.0 mm   10.5 in   |
| Length          | 2769.0 mm   109.0 in |
| Width           | 412.0 mm   16.2 in   |
| Shipping Weight | 31.0 kg   68.3 lb    |

## Regulatory Compliance/Certifications

| Agency                     | Classification   |
|----------------------------|--|
| RoHS 2011/65/EU            | Compliant by Exemption   |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV)  |
| ISO 9001:2008              | Designed, manufactured and/or distributed under this quality management system |



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## Included Products

600899A-2 — 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.

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## \* Footnotes

|                  |   |
|------------------|---|
| Performance Note | Severe environmental conditions may degrade optimum performance |
|------------------|---|



**600899A-2**  
**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

|                  |                     |
|------------------|---------------------|
| Antenna Brand    | Andrew®             |
| Mount Type       | Downtilt mounts     |
| 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                   | 3.9 kg   8.5 lb   |

## Regulatory Compliance/Certifications

| Agency                     | Classification   |
|----------------------------|--|
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| ISO 9001:2008              | Designed, manufactured and/or distributed under this quality management system |

