



## SBH-1D3319DS

**Andrew® Antenna, 1710–2180 MHz, 1x remote electrical tilt, integrated Next Generation Actuator™**

- Exceptional horizontal roll-off and front-to-back ratio for superior capacity efficiency
- Extended elevation tilt for maximum flexibility in urban core areas
- Internal next generation actuator eliminates field installation and defines new standards for reliability
- Significantly reduces operational expense by remote control of electrical tilt

### OBSOLETE

This product was discontinued on: December 31, 2014

#### Replaced By

HBX-3319DS-VTM  
HBX-3319DS-A1M

Andrew® Antenna, 1710–2180 MHz, 33° horizontal beamwidth, RET compatible

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	20.5	20.7	20.7
Beamwidth, Horizontal, degrees	35	33	32
Beamwidth, Vertical, degrees	7.0	6.6	6.2
Beam Tilt, degrees	0–9	0–9	0–9
USLS by Beam Tilt, dB	0° 2° 4° 6° 8° 20 20 17 16 17	0° 2° 4° 6° 8° 20 20 17 17 17	0° 2° 4° 6° 8° 20 20 17 17 17
Front-to-Back Ratio at 180°, dB	35	36	37
Isolation, dB	30	30	30
VSWR   Return Loss, dB	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	300	300	300
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

## General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® with internal RET
Band	Single band
Brand	DualPol®   Teletilt®
Operating Frequency Band	1710 – 2180 MHz
Performance Note	Outdoor usage

## Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Low loss circuit board
Radome Material	PVC, UV resistant
RF Connector Interface	7-16 DIN Female

SBH-1D3319DS

RF Connector Location	Bottom
RF Connector Quantity, total	2
Wind Area, maximum	0.2 m <sup>2</sup>   2.4 ft <sup>2</sup>
Wind Loading, maximum	466.0 N @ 150 km/h 104.8 lbf @ 150 km/h
Wind Speed, maximum	241 km/h   150 mph

## Dimensions

Depth	132.0 mm   5.2 in
Length	1463.0 mm   57.6 in
Width	269.0 mm   10.6 in
Net Weight	13.1 kg   28.9 lb

## Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	1.0 W
Power Consumption, normal conditions, maximum	10.0 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
RET System	Teletilt®

## Packed Dimensions

Depth	302.0 mm   11.9 in
Length	1748.0 mm   68.8 in
Width	468.0 mm   18.4 in
Shipping Weight	22.9 kg   50.5 lb

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
China RoHS SJ/T 11364-2006

### Classification

Compliant by Exemption  
Above Maximum Concentration Value (MCV)



## 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.

## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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