



## SBHH-1D3817TB

**Andrew® Quad Twin Beam Capacity Antenna, 1710–2180 MHz, 2 x 38° horizontal beamwidth, 2 x internal remote electrical tilt**

- High gain with excellent sector edge roll-off and azimuth sidelobe suppression
- Single panel design supporting two separate beams perfectly optimized at horizontal pointing angles of +27 degrees and -27 degrees from boresight
- Internal next generation actuator eliminates field installation and defines new standards for reliability
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs
- Enhances network capacity through six sectors site application with only three antenna faces

### OBSOLETE

This product was discontinued on: January 1, 2014

#### Replaced By

SBHH-1D3817TB1	Andrew® Quad Twin Beam Capacity Antenna, 1710–2180 MHz, 2 x 38° horizontal beamwidth, 2 x internal remote electrical tilt
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## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	19.2	19.6	19.8
Beam Centers, Horizontal, degrees	±27	±27	±27
Beamwidth, Horizontal, degrees	38	38	35
Beamwidth, Vertical, degrees	7.5	7.0	6.5
Beam Tilt, degrees	0–10	0–10	0–10
Horizontal Sidelobe, dB	20	20	20
USLS, typical, dB	17	18	16
Gain Roll-off at Boresight, dB	-9	-9	-9
Gain Roll-off at Boresight Tolerance, dB	±2	±2	±2
Front-to-Back Ratio at 180°, dB	33	35	32
Isolation, Cross Polarization, port to port, dB	30	30	30
VSWR   Return Loss, dB	1.4   15.6	1.4   15.6	1.4   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
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® twin beam
Band	Single band
Brand	DualPol®   Teletilt®
Operating Frequency Band	1710 – 2180 MHz
Performance Note	Outdoor usage

## Mechanical Specifications

SBHH-1D3817TB

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	4
Wind Loading, maximum	438.0 N @ 150 km/h 98.5 lbf @ 150 km/h
Wind Speed, maximum	241 km/h   150 mph

## Dimensions

Depth	181.0 mm   7.1 in
Length	1390.0 mm   54.7 in
Width	301.0 mm   11.9 in
Net Weight	16.8 kg   37.1 lb

## Remote Electrical Tilt (RET) Information

Adjustment Time, full range, maximum	30 s
Annual Failure Rate, maximum	0.01%
Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	11.0 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	1 female   1 male
RET System	Teletilt®

## Packed Dimensions

Depth	292.0 mm   11.5 in
Length	1513.0 mm   59.6 in
Width	409.0 mm   16.1 in
Shipping Weight	31.5 kg   69.4 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

SBHH-1D3817TB

DB380 — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes 2 clamp sets and double nuts.

DB5083 — Downtilt Mounting Kit for 2.4"-4.5" (60 - 115 mm) OD round members. Includes a heavy-duty, galvanized steel downtilt mounting bracket assembly and associated hardware. This kit is compatible with the DB380 pipe mount kit for panel antennas that are equipped with two mounting brackets.

## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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**DB380**  
**Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas.**  
**Includes 2 clamp sets and double nuts.**

**OBSOLETE**  
This product was discontinued on: May 31, 2016  
Replaced By

BSAMNT-1      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

Antenna Brand	Andrew®
Mount Type	Pipe 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	2.8 kg   6.2 lb

## Regulatory Compliance/Certifications

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





**DB5083**  
**Downtilt Mounting Kit for 2.4"-4.5" (60 - 115 mm) OD round members. Includes a heavy-duty, galvanized steel downtilt mounting bracket assembly and associated hardware. This kit is compatible with the DB380 pipe mount kit for panel antennas that are equipped with two mounting brackets.**

**OBSOLETE**  
**This product was discontinued on: May 31, 2016**  
**Replaced By**

**BSAMNT-1**      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

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	2.2 kg   4.9 lb

## Regulatory Compliance/Certifications

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

