



## SBH-2D3318

**Andrew® SmartBeam® DualPol® Antenna, 1710–2180 MHz, 33° horizontal beamwidth, remote electrical tilt and pan**

- SmartBeam® antenna—2° of freedom—electrical tilt and pan (boresite adjustment  $\pm 30^\circ$ )
- Significantly reduces operational expense by remote control of tilt and horizontal beam direction
- Delays the need to add radios or sites by providing superior capacity efficiency of existing radios through dynamic load balancing
- Fully compatible with Andrew Teletilt® remote control system
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Fully supports PCS 1900, GSM 1800, UMTS 2100, and AWS spectrum

### **OBSOLETE**

This product was discontinued on: **May 31, 2014**

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	19.9	20.0	20.1
Beamwidth, Horizontal, degrees	37	35	32
Beamwidth, Vertical, degrees	7.5	7.0	6.5
Beam Tilt, degrees	0–10	0–10	0–10
USLS, typical, dB	21	20	20
Front-to-Back Ratio at 180°, dB	40	40	40
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	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350
Polarization	$\pm 45^\circ$	$\pm 45^\circ$	$\pm 45^\circ$
Impedance	50 ohm	50 ohm	50 ohm

## General Specifications

Antenna Brand	Andrew®
Antenna Type	SmartBeam®
Band	Single band
Brand	DualPol®   SmartBeam®   Teletilt®
Operating Frequency Band	1710 – 2180 MHz

## Mechanical Specifications

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

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POWERED BY



RF Connector Location	Bottom
RF Connector Quantity, total	2
Wind Area, maximum	0.1 m <sup>2</sup>   1.1 ft <sup>2</sup>
Wind Loading, maximum	344.0 N @ 150 km/h 77.3 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h   149.8 mph

## Dimensions

Length	1616.2 mm   63.6 in
Outer Diameter	267.0 mm   10.5 in
Net Weight	19.2 kg   42.3 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	Andrew vendor specific
RET Interface	RS-485 Female (daisy chain port ,1)   RS-485 Male (input port, 1)
RET Interface, quantity	1 female   1 male
RET System	Teletilt®

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
China RoHS SJ/T 11364-2006  
ISO 9001:2008

### Classification

Compliant by Exemption  
Above Maximum Concentration Value (MCV)  
Designed, manufactured and/or distributed under this quality management system



## Included Products

600899F — Fixed Tilt Pipe Mounting Kit for 2.95 - 4.5 in (75 - 115 mm) OD round members. Kit contains top and bottom mount brackets.