



# SAS2800 Hi-Gain WiFi MIMO Signal Booster

## Description

Hi-Gain WiFi MIMO Signal Booster (SAS2800) is a Smart Antenna design that attaches directly to an IEEE 802.11 b/g Access Point (AP) over a coaxial cable. Through the use of adaptive beamforming, SAS2800 simultaneously enhances the AP's overall range and throughput.

The SAS2800 is designed for 802.11 b/g (11/54Mbps) dualband applications operating in the 2.4 GHz ISM band. The SAS2800 allows an 802.11 b/g transceiver to employ up to four antenna elements for adaptive antenna processing which results in increased RF receiver sensitivity, extended range and more uniform coverage. The combination of a standard AP and a SAS2800 device significantly improves the system performance over the AP alone, which incorporates advanced combining algorithms that eliminate the need for additional AP processing resources.

## Features

- 2.4 GHz ISM Band
- IEEE 802.11 b/g operation
- Completely Standards Compliant
- Supports Most Proprietary Modes including Atheros SuperG, Static Turbo and Dynamic Turbo
- Up to 12 dB of beamforming gain
- Improves 802.11 b/g Access Points
- Expands Overall Range
- Increases Throughput
- Prolongs Laptop Battery Life
- Provides Uniform Coverage
- Simple Single Cable to AP Connection
- No Software Required

## □ Specification

### Standards

- 802.11g
- 802.11b

### Dimensions (including case)

- Length 5 in (12.70 cm)
- Width 1 in (2.54 cm)
- Height 4 in (10.16 cm)

### Weight

- 0.11 lbs (49.90 g)

### Humidity

- 95% non-condensing

### I/O

- 4 SMA Type Antenna Connectors
- 1 SMA Type RF Cable Connector
- DC Adapter Voltage 7.5 V
- 4 LED Indicators

### Indicator LEDs

- Power
- TX
- Channel Number
- Channel Scanning

## □ Compliancy

The SAS2800 is compliant to FCC standards when tested with a compliant AP unit. Retesting of the final packaging is required.

The SAS2800 is compliant to UL safety certifications. Retesting of the final packaging is required.

| RF Parameter                | Unit | Min | Typ                    | Max |
|-----------------------------|------|-----|------------------------|-----|
| Frequency                   | GHz  | 2.3 | 2.4 GHz<br>ISM<br>band | 2.5 |
| TX Input from AP to SAS2800 | dBm  | 15  | 18                     | 19  |

## □ Absolute Maximum Rating

| Parameter                   | Rating          |
|-----------------------------|-----------------|
| Operating Temperature       | 0o C to 50 o C  |
| Storage Temperature         | -40 o to 50 o C |
| DC Voltage                  | 8.0 V           |
| RF Input from AP to SAS2800 | 23dBm           |

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