



BS-IM24-10

802.11n/b/g 1W Wifi Amplifier

- ✦ Applied "802.11g Turbo Mode" data rate speeds up to 108Mbps.
- ✦ Tx max output power up to 1W(30dBm) in 802.11g/54Mbps.
- ✦ Tx average output power up to 30dBm with excellent signal linearity (EVM<4.5%)
- ✦ Very low power consumption down to 4Watt with 1W RF output power.
- ✦ Frequency coverage from 2.3GHz to 2.5GHz.



This Bi-Directional RF Amplifiers provides a system integrator a cost effective indoor solution. These amplifiers are especially designed for excellent signal linearity (EVM<4.5%) to achieve the maximum throughput allowed in the OFDM spectrum. Reliable and cost-effective, this achievement would allow you to increase the range of your wireless link.

TraNet Technologies Corp

6F-3, No.20, Lane 609, Sec. 5, Chung Hsin Rd.,
San Chung City, Taipei Hsien 241, Taiwan

www.aristar.com.tw



Specification

Frequency

- 2.3~2.5GHz

Operating Mode

- Bi-Directional TDD (Time Division Duplex)

Average Output Power

- 27+2dBm in 802.11g/54Mbps
- 29+2dBm in 802.11g/36Mbps
- 30+2dBm in 802.11g/18Mbps
- 32+2dBm in 802.11b/11Mbps

Tx Input Power

- 1dBm ~ 18dBm

RF Input Power for Turn-On

- >1dBm

Rx to Tx Switch Time

- <0.5 μ s

Supply Current

- 1.3A max, Vcc=5V @1W Power Output

Emission Type

- DSSS/OFDM

Receiver Gain

- 12 dB typ.

Noise Figure

- 3.5 dB typ.

Linear Operation

- Pin < -12dBm

Tx/Rx Switch Time

- <0.5 μ s

Supply Current

- <20mA, Vcc=5V

Dimension

- 68 x 36 x 15mm

Material

- Plastic

RF Connector

- Amplifier: SMA female (RP) / SMA female (RP)

Operating Temp.

- -40~+60°C

VDD

- 5.25V

Input Power (Radio Port)

- +20dBm

Input Power (Antenna Port)

- +1dBm

Operating Temp.

- -40~+65°C

Storage Temp.

- -40~+85°C

TraNet Technologies Corp

6F-3, No.20, Lane 609, Sec. 5, Chung Hsin Rd.,
San Chung City, Taipei Hsien 241, Taiwan

www.aristar.com.tw