2.4GHz

4 Watt Bi-Directional Power Amplifier

Model no. NBO-24-400



Description

This product is a bi-directional antenna-mount amplifier designed to match IEEE802.11b/g spread spectrum system to allow the extension of the operating range in wireless environment. The product is designed for 2.4GHz, it works in Time-Division Duplex (TDD) mode that allow the radio device sharing the antenna in different time intervals. The product consist Automatic Gain Controlled (AGC) circuits to maintain the output power and prevent transmit signal saturation. The input transmit power level is sensed by the radio sensor and the amplifier gain is automatically adjusted to minimize the signal distortion, so the desired signal quality can be assured. The product fitted with a Low Noise amplifier (LNA) in receiver to compensate the installation with long cable losses.

Key Feature

1. Automatic gain control to minimize the signal distortion.
2. Wide transmit input level(+5dBm~+23dBm)
3. Low Noise Amplifier(LNA) with system noise figure 3.5dB
4. Universal 110/220 AC auto switching AC adapter for 12V DC power injector.
5. Lightning protection inside.
6. DC power injector equipped with lightning protection.
7. Industry standard N-type connector.
8. Outdoor weatherproof enclosure.

Electrical Specifications

Access Method	DS/TDD
Operating Frequency	2.4GHz ~ 2.5GHz
Spurious Emission	30MHz ~ 1 GHz : -36dBm(max.) 1GHz ~ 12.75 GHz : -30dBm(max.)
Transmitter output power	36dBm±1dB (@25°C, 5~23dBm input power) 36dBm±2dB (@-20°C, 5~19dBm input power) 36dBm±2dB (@70°C, 5~19dBm input power)
Receiver gain	20dB(min.)±2dB (at –40dBm input signal)
Receiver Noise Figure	3.5dBm
Receiver Return Loss	14dB(min.)
Current consumption	**Transmitter :** 3.2A (max.) **Receiver :** 360mA (max.)

Standard Operating Conditions

Temperature Range	-20°C ~ +70°C (Operating) -40°C ~ +80°C (Storage)
Operating Humidity (non-condensing)	5% to 95% RH
Supply Voltage	AC 100V~240V 50/60Hz DC 12V/4A

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All specifications are subject to change without notice.