

1.2GHz 7W Signal Booster Product Specification Sheet

EP-AB066

1. Product Overview

This product is a 1.2GHz 7W bidirectional power amplifier (one transmitting and one receiving channel) specially designed for long-range wireless data and video transmission applications.

It employs advanced single-carrier modulation technology to significantly extend wireless communication distance without affecting transmission rate, while providing strong anti-interference capability.

Featuring compact size, high efficiency, excellent linearity, and stable performance, wireless surveillance systems, smart home networks, and emergency communication equipment.



2. Key Features

- Up to 7W high output power, extending signal coverage and improving link stability
- Ultra-low noise figure (<1.5 dB) ensures clear signal reception
- Wide 12V – 24V DC operating range, adaptable to various power environments
- Plug-and-play design, no software configuration required
- Durable aluminum alloy enclosure, providing superior heat dissipation and protection
- Compact and lightweight, suitable for embedded and mobile applications

3. Electrical Characteristics

Number	Items	Specifications
1	Frequency Range	1170-1280MHz
2	Operating Voltage	12-24V
3	Receiving Gain	18dB \pm 1
4	Transmission Gain	20dB \pm 1
5	Max Output Power(P1dB)	38.5dBm(7W)
6	Input Trigger Power	Min:4dBm, Max:19dBm
7	Linear Output Power	32dBm, EVM \leq 5% (802.11g 54 Mbps, 64QAM, BW 20 MHz)
8	Noise Figure	<1.5 dB
9	Current Consumption	400mA@Pout 32dBm, 12V
10	TX/RX Switch Time Delay	<1 us

11	LED Indicator	Red (Power/Status)
12	Operating Temperature	-40℃～+70℃
13	Storage Temperature	-40℃～+125℃
14	Operating Humidity	≤95% RH (non-condensing)
15	RF Connector	Input: SMA-K; Output: RP-SMA-K
16	Power Socket	Ø2.5*0.7mm
17	Dimensions (L×W×H)	73*43*15(mm)
18	Housing Material	Aluminum
19	Net Weight	0.085kg