

# 1.2GHz 10W Signal Booster Product Specification Sheet

## EP-AB071

### 1. Product Overview

This product is a 1.2GHz 10W bidirectional power amplifier (one transmitting channel and receiving channel), specifically developed for 1.2GHz wireless data and video transmission applications.

It utilizes advanced single-carrier modulation technology to significantly extend wireless communication distance while maintaining transmission rate, and offers strong anti-interference capability.

The product features a compact size, high efficiency, excellent linearity, and reliable stability, making it widely applicable in emergency communications, wireless security, and power systems.



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### 2. Key Features

- Up to 10W high output power, enhancing signal coverage and link stability
- Ultra-low noise figure (<1.5 dB) for improved signal quality
- 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 ± 1
4	Transmission Gain	20dB ± 1
5	Max Output Power(P1dB)	40dBm(10W)
6	Input Trigger Power	Min:4dBm, Max:20dBm
7	Linear Output Power	35dBm, EVM≤5% (802.11g 54 Mbps, 64QAM, BW 20 MHz)
8	Noise Figure	<1.5dB
9	Current Consumption	650mA@Pout 35dBm, 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