

868&915MHz 8W Signal Booster Product Specification Sheet

EP-AB069

1. Product Description

This product is a 868 & 915MHz 8W bidirectional power amplifier (one transmitting and one receiving channel), specially designed for long-range wireless data and video transmission applications.

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

Featuring compact size, high efficiency, excellent linearity, and stable performance, it is widely used in wireless surveillance systems, emergency communications, and industrial IoT systems.



2. Applications

- Smart Home System Signal Extension
- Wireless Camera Range Extension
- Drone Communication Range Extension
- Industrial and Emergency Communication Enhancement

3. Features

- Up to 8W high output power, extending signal coverage and improving link stability
- Ultra-low noise figure (<1.2 dB) ensures superior signal reception performance
- Wide 12V - 24V DC input range, compatible with various power systems
- Plug-and-play design, no software configuration required
- Rugged aluminum alloy enclosure for effective heat dissipation and protection
- Compact and lightweight, suitable for mobile and embedded applications

Parameters

Number	Items	Specifications
1	Frequency Range	850 - 930MHz
2	Operating Voltage	12-24V
3	Receiving Gain	18dB \pm 1
4	Transmission Gain	20dB \pm 1
5	Max Output Power(P1dB)	39dBm(8W)

6	Input Trigger Power	Min:4dBm Max:19dBm
7	Linear Output Power	32dBm, EVM \leq 5% (802.11g 54Mbps, 64QAM, BW 20MHz)
8	Noise Figure	<1.2dB
9	Current Supply	500 mA @ Pout 32dBm, 12V
10	TX/RX Switch Time Delay	<1 us
11	LED Indicator	Red (Power/Status)
12	Operating Temperature	-40℃ \sim +70℃
13	Storage Temperature	-40℃ \sim +125℃
14	Operating Humidity	\leq 95% RH (non-condensing)
15	RF Connector	Input: SMA-K; Output: RPSMA-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