

915MHz 8W Signal Booster Product Specification Sheet

EP-AB070

1. Product Description

This product is a 915 MHz 8 W bidirectional power amplifier (one transmitting and one receiving channel), designed for 900 – 930 MHz wireless data and video transmission applications.

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

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



2. Applications

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

3. Features

- Up to 8 W high output power, extending signal coverage and improving link stability
- Ultra-low noise figure (< 1.2 dB) ensures clear and stable signal reception
- Wide 12 V – 24 V DC input range, compatible with diverse power systems
- Plug-and-play design, no software or driver configuration required
- Rugged aluminum alloy housing, providing efficient heat dissipation and protection
- Compact and lightweight, ideal for embedded or mobile applications

Parameters

Number	Items	Specifications
1	Frequency Range	900 - 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°C ~ +70°C
13	Storage Temperature	-40°C ~ +125°C
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