7.2GHz 4W Extender
EP-AB091

Product Overview

This high-performance RF signal extender is engineered for 7GHz wireless systems, covering the critical 6000–7200MHz frequency band.

With up to 36dBm (4W) output power and an ultra-low 2.5dB noise figure, it significantly boosts your existing signal (up to ~80x power gain), improving:

- Video transmission distance
- Control signal stability
- Data link reliability

Features

- Ultra-low noise figure: 2.5dB for clean signal amplification
- Wide input voltage range: 7V–36V DC
- Compatible with certified WiFi 5 / WiFi 6 / WiFi 7 systems
- True plug-and-play design, no software required
- Up to 80× signal power improvement, enhancing WLAN link quality and coverage
- High-efficiency dual-channel RF amplification

Parameters

Number	Items	Specifications
1	Frequency Range	6000-7200MHz
2	Operating Voltage	7-36V
3	Receiving Gain	14dB±1
4	Transmission Gain:	20dB±1
5	Max Output Power(P1dB)	36dBm(4W)
6	Input Trigger Power	Min:3dBm Max:20dBm
7	EVM	3%@28dBm WIFI7 54Mbps OFDM 64QAM BW 20MHz
8	Noise Figure	＜2.5dB
9	Current Supply	1A@Pout 28dBm 12V dual channel

10	TX/RX Switch Time Delay	＜1 us
11	LED Indicator	Transmitter: Green; Receiver: red
12	Operating Temperature	-30℃～+70℃
13	Storage Temperature	-40℃～+150℃
14	Operating Humidity	Up to 95% rel. humidity
15	RF Connector	Input: SMA-K; Output: RP-SMA-K
16	Power Socket	2.5*0.7mm DC(default)
17	Shell Size	65*35*13(mm)
18	Shell Material	Aluminum
19	Net Weight	0.06Kg

Attentions

1 12V /2A power supply.

2 Heat dissipation is recommended, such as adding heat sink or radiator fan.

3 Antenna should be screwed first, then plug the power adapter, finally connect the device.

4 The output could reach 36dBm, when input power is 16dBm or 17dBm (default gain is 20dB).