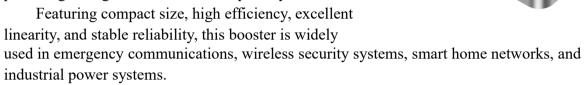
2.4GHz 6W Signal Booster Product Specification Sheet EP-AB065

1. Product Description

This product is a 2.4GHz 6W bidirectional power amplifier (one transmitting and one receiving channel) specifically designed for 2.4GHz wireless data and video transmission applications.

Utilizing advanced single-carrier modulation technology, it significantly extends the wireless communication distance while maintaining the original data transmission rate of wireless devices and providing strong anti-interference capability.





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

3. Features

- Up to 6W high-power output, enhancing signal coverage and link stability of certified wireless devices
- Ultra-low noise figure (<2.5 dB) for improved signal clarity
- Wide 12V 24V DC input range, adaptable to multiple power environments
- Plug-and-play design, no software configuration required
- Compact aluminum housing, ensuring excellent heat dissipation and durability
- Compatible with 2.4GHz Wi-Fi and video transmission systems

Parameters

| Number | Items | Specifications |
|--------|-------------------|----------------|
| 1 | Frequency Range | 2400-2500MHz |
| 2 | Operating Voltage | 12-24V |
| 3 | Receiving Gain | 17dB±1 |
| 4 | Transmission Gain | 21dB±1 |



| 5 | Max Output Power(P1dB) | 38dBm(6W) |
|----|-------------------------|---|
| 6 | Input Trigger Power | Min:4dBm Max:17dBm |
| 7 | Linear Output Power | 32dBm, EVM≤5% (802.11g 54 Mbps, 64QAM, BW 20 MHz) |
| 8 | Noise Figure | <2.5dB |
| 9 | Current Supply | 400mA@Pout 32dBm 12V |
| 10 | TX/RX Switch Time Delay | <1 us |
| 11 | LED Indicator | Red |
| 12 | Operating Temperature | -40°C ∼+70°C |
| 13 | Storage Temperature | -40°C∼+125°C |
| 14 | Operating Humidity | Up to 95% rel. humidity |
| 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 |