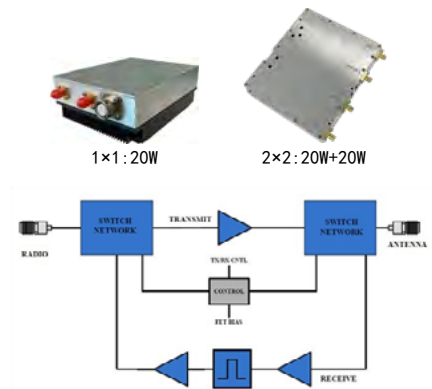


# BiAMP-VHF/UHF/L band/S band/C band Bi-Directional RF Amplifier

BiAMP RF power amplifier provides 40/20/10/5W,150M/230M/400M/600M/800M/900M/1.4G/2.3G/5.0GHz linear/unlinear RF amplifier, designed for broadband/narrowband digital data link applications. This series of amplifiers adopts silicon based potassium nitride power amplifier, high speed automatic tx/rx switching,high efficiency RF output.

## Features

- 30MHz-5.0GHz,supports 1\*1、 2\*2 MIMO, integrated transmitting and receiving
- Supports any signal type and any modulation mode, including 3-5G telecom, WLAN,OFDM,DVB and CW/AM/FM/GMSK/BPSK/QPSK/16QAM/64QAM
- High power spectral density, high efficiency and high linearity,single channel output up to 50W
- RX band pass filtering,minimum 9dB gain noise floor amplification with less than 3dB noise figure
- Automatic Rx/Tx switching/external Tx-Rx trigger (based on user requirements), and the switching time is less than 2μs
- Automatic gain control, CPLD timing control, 90°C high temperature automatic protection and other perfect protection design
- Tx/Rx indicator, wide voltage input
- Small size, light weight, stable and reliable

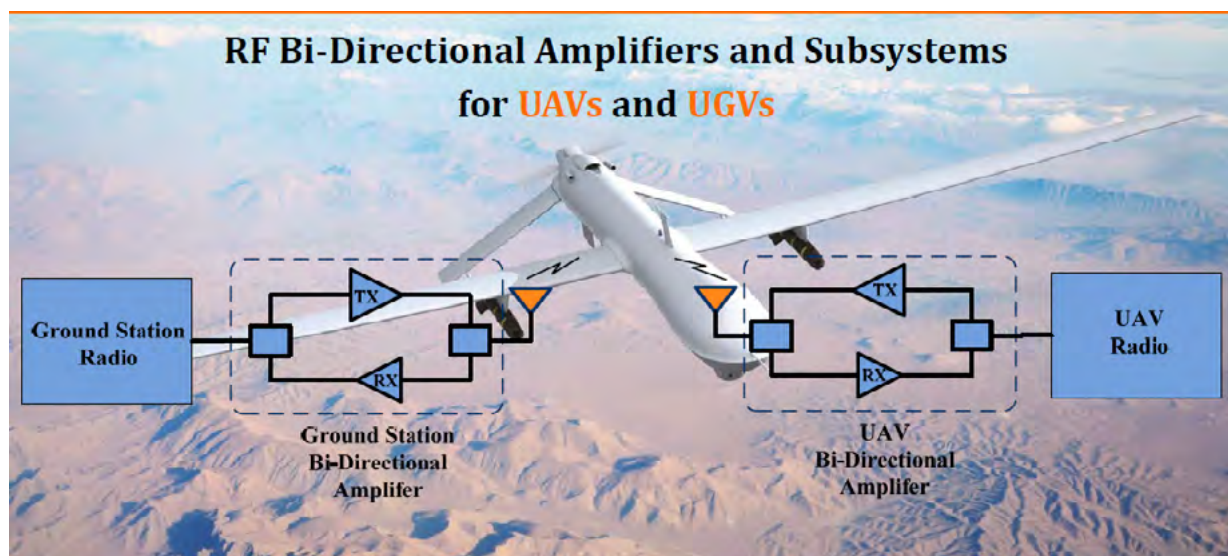


## Specifications

Frequency	225-400/400-450/450-550/570-700/840-845/902-928/960-1170/ 1300-1500/1980-2200/2400-2483/2200-2500/4400-4700/ 4700-5000/5030-5100/5725-5875/5150-5250MHz		Supply Range/Current	18-28V/20W, 2.5A@28V
TX Power Gain	20-27dB(Psat=+44dBm)		Rx/Tx Switching	<2μs
RX Gain	9-11dB(Gain FCoat ness < 1.5dB)		Input Signal	13-20dBm
802.11g, FEC	Modulation Mode (Data Rate @20MHz)	Tx O/P(W)	Impedance	50Ω
3/4	QAM64, 54Mbps	8	Power Consumption	≤140W (At 46dBm output)
3/4	QAM16, 36Mbps	11		
1/4	QPSK, 12Mbps	16	Connector	TNC/SMA
1/4	BPSK, 9Mbps	20	Size/Weight	12.5x9x6.8cm/933.5g 11x12.7x1.6cm/410g

## Applications

- Increase P400/P900,DDL/ PDLL/PMDDL etc Communication Range
- Applicable to Silvus, Persistent, DTC,Other Broadband Radio



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