

The **AW-PA-20W-BB** series is a 20 W broadband GaN power amplifier for FPV VTX and wideband data/video links. A single unit covers a wide continuous band (options up to **100 – 7200 MHz**) with **40 ± 1 dB** typical gain — ideal when one amplifier must serve multiple channels. Orderable part numbers (**AW-PA- $\langle f_{\text{low}} \rangle$ - $\langle f_{\text{high}} \rangle$ -20-S**) are listed below.

Features

- Broadband coverage — one unit spans a wide band
- Output power: 20 W (43 dBm)
- 40 ± 1 dB typical gain
- GaN technology — high efficiency
- SMA female connectors, 50 Ω
- AWG18 20 cm red/black power lead
- Compact aluminium housing

Applications

FPV VTX boosting; wideband UAV/drone video & data links; multi-channel transmission where a single wideband amplifier is preferred.

Electrical & Mechanical Specifications

Parameter	Unit	Specification
Output Power (P1dB)		20 W (43 dBm)
Gain (S21)	dB	40 ± 1
Impedance	Ω	50
RF Connector		SMA female
DC Supply	V	24 – 28 V
Supply Current	A	≤ 1.8 A
Power Lead		AWG18, 20 cm red / black wire
Housing		Brushed aluminium

Model Selection — Frequency Options

Model	Frequency	Output Power	Size (mm)	Weight
AW-PA-100-400-20-S	100 – 400 MHz	20 W	132 × 53 × 17	210 g
AW-PA-400-1000-20-S	400 – 1000 MHz	20 W	132 × 53 × 17	210 g
AW-PA-1000-2000-20-S	1.0 – 2.0 GHz	20 W	132 × 53 × 17	210 g
AW-PA-2000-3000-20-S	2.0 – 3.0 GHz	20 W	132 × 53 × 17	210 g
AW-PA-3000-4000-20-S	3.0 – 4.0 GHz	20 W	132 × 53 × 17	210 g
AW-PA-4000-5000-20-S	4.0 – 5.0 GHz	20 W	132 × 53 × 17	210 g
AW-PA-5000-6000-20-S	5.0 – 6.0 GHz	20 W	132 × 53 × 17	210 g
AW-PA-6000-7200-20-S	6.0 – 7.2 GHz	20 W	132 × 53 × 17	210 g