

The **AW-PA-10W-N** series is a 10 W GaN unidirectional power amplifier with rugged **N-type** connectors, for drone / FPV link enhancement where the more robust N interface is preferred. **40 dB** typical gain, frequency options from 200 MHz to 2.485 GHz. Orderable part numbers: **AW-PA- $\langle f_{\text{low}} \rangle$ - $\langle f_{\text{high}} \rangle$ -10-N**.

Features

- Output power: 10 W (40 dBm)
- 40 ± 1 dB typical gain
- Rugged N-type connectors
- Unidirectional GaN design
- Simple 24 V DC supply, 15 cm red/black lead
- Compact aluminium housing

Applications

FPV / UAV / drone data & video link enhancement where N-type connectors are required for durability or system compatibility.

Electrical & Mechanical Specifications

Parameter	Unit	Specification
Output Power (P1dB)		10 W (40 dBm)
Gain (S21)	dB	40 ± 1
Impedance	Ω	50
RF Connector		N-type
DC Supply	V	24 V
Supply Current	A	≤ 1.5 A
Power Lead		15 cm red / black wire
Housing		Brushed aluminium

Model Selection — Frequency Options

Model	Frequency	Output Power	Size (mm)	Weight
AW-PA-200-300-10-N	200 – 300 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-300-400-10-N	300 – 400 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-400-500-10-N	400 – 500 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-500-600-10-N	500 – 600 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-600-700-10-N	600 – 700 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-700-830-10-N	700 – 830 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-830-960-10-N	830 – 960 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-960-1100-10-N	960 – 1100 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-1160-1280-10-N	1160 – 1280 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-1220-1420-10-N	1220 – 1420 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-1450-1550-10-N	1450 – 1550 MHz	10 W	128.5 × 53 × 17	0.26 kg

Model	Frequency	Output Power	Size (mm)	Weight
AW-PA-1550-1620-10-N	1550 – 1620 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-1650-1760-10-N	1650 – 1760 MHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-2200-2400-10-N	2.2 – 2.4 GHz	10 W	128.5 × 53 × 17	0.26 kg
AW-PA-2400-2485-10-N	2.4 – 2.485 GHz	10 W	128.5 × 53 × 17	0.26 kg