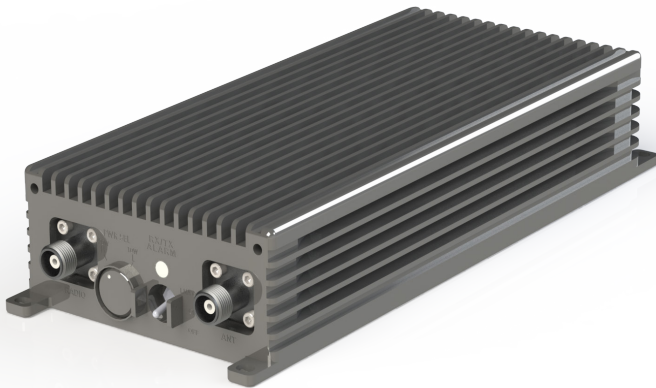


AR-FS-20 SERIES FAST SWITCHING AMPLIFIERS



Enhanced battlefield data links using the AR-FS-20 series of booster amps provide greater distance and reliability for today's tactical networks. This new series of amps offer 20 Watts output power with switching speeds under 2 μ s to improve network performance.

These fully automatic T/R switching booster amps support the latest MANET waveforms as well as legacy and proprietary waveforms. Operating from a wide range input DC voltages, the AR-FS-20 can be deployed in many applications including vehicles, dropkits, and aircraft.

Our battle tested amplifiers include over temperature protection, RF sensing, T/R Switching, automatic level control (ALC), harmonic filters, and protection against antenna mismatch.

FEATURES & BENEFITS:

- 20 Watts
- Fast T/R switching - under 2 μ s
- Fully automatic, Auto-sensing, T/R switching booster amplifier with automatic harmonic filtering
- Radio & waveform agnostic
- Mobile form factor
- NVG compatible interface
- Optional DC power cables available
- Waveforms supported: TSM, WREN, AM, FM, ANW2, IW, DAMA, SRW, HPW, SINCGARS, HAVEQUICK I and II, Frequency Hopping, CDMA/WCDMA, OFDM and more
- Supports Multiple Radio Platforms: AN/PRC-117G, AN/PRC-152, AN/PRC-148 (MBITR/JEM), AN/PRC-163, AN/PRC-167, AN/PRC-154 Rifleman™ Radio, AN/PSC-5D, AN/ARC-210, and more

Extending the range and quality of tactical radios has never been easier - or faster! The AR-FS-20 series is designed for easy operation with minimum operator intervention for rapid deployment.



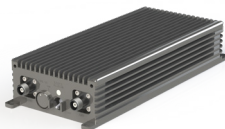
AR-FS-20 SERIES FAST SWITCHING AMPLIFIERS

Features

AR-FS-20LS



AR-FS-20U



AR-FS2-20LS
Available Q3 2025
(Specs Preliminary)



AR-FS2-20VU
Available Q4 2025
(Specs Preliminary)



Power Output	20 Watts total channel power	20 Watts total channel power	20 Watts total channel power	20 Watts total channel power
Frequency Range	1250 MHz-2600 MHz	225 MHz-450 MHz	1250 MHz-2600 MHz	30 MHz-512 MHz
Input Power	2W CW / PEP	2W CW / PEP	2W CW / PEP	2W CW / PEP
T/R Switching Speed	Under 2 μ s	Under 2 μ s	Under 2 μ s	Under 2 μ s (225-512 MHz) Under 5 μ s (30-225 MHz)
Receive LNA Gain	10 dB+	N/A	10 dB+	10 dB+
Insertion Loss	2.0 dB (LNA Off)	1.5 dB	1.5 dB (LNA Off)	1.5 dB (LNA Off)
Bypass Tx Insertion Loss	1.5-2.0 dB	1 dB	1 dB	1 dB
Harmonic Performance	Better than -60 dBc	Better than -60 dBc	Better than -60 dBc	Better than -60 dBc
DC Input Voltage	18 to 36 VDC	18 to 36 VDC	12 to 36 VDC	12 to 36 VDC
Power Consumption (Tx)	140 W	72 W	100-120 W	100-120 W
Operating Temperature	-30 to +60°C	-30 to +60°C	-30 to +60°C	-30 to +60°C
Duty Cycle at Ambient, no Force Air Cooling	90%	90%	TBD	TBD
Standards	MIL-STD-810, MIL-STD-461, MIL-STD-1399	MIL-STD-810, MIL-STD-461, MIL-STD-1399	MIL-STD-810, MIL-STD-461, MIL-STD-1399	MIL-STD-810, MIL-STD-461, MIL-STD-1399
Immersion	IP67	IP67	IP67	IP67
Size (H x W x D)	5.0 x 3.0 x 7.4	5.0 x 3.0 x 6.9	1.86 x 3.75 x 8.78	1.86 x 3.75 x 8.78
Weight	4.5 lbs.	4.5 lbs.	~2.6 lbs.	~2.6 lbs.