

2011/2012

Tactical Booster Amplifiers

*The Leading Supplier of
Booster Amplifiers for
Tactical Military Radios
(30-512 MHz)*

*20 Watts
35 Watts
50 Watts
75 Watts
125 Watts
200 Watts*

Don't Compromise!

In hostile environments dependable communications is vital. Lives depend on it. That's why the U.S. Army, Navy, Marines, Air Force and Coast Guard depend on booster amplifiers from AR Modular RF.

They're designed smart, built tough, and easy to operate.

AR Modular RF booster amps cover the frequency (30-512 MHz and HF, VHF, and UHF bands) and supports modern tactical waveforms.

AR Modular RF has over 35 years of experience in RF and utilizes that

knowledge with the latest technology to deliver one of the most advanced booster amplifiers available in the market today.

These Battle Tested booster amplifiers are lightweight and compact. Every model incorporates RF sensing circuits to

switch from Receive to Transmit. They all include Automatic Level Control,

low pass harmonic or band pass filters, protection against antenna mismatch

(VSWR) and overheating.

Bottom line? They do the job and go the distance. Through shock, vibration, extreme temperatures and even water. When troops have to go through hell and high water, these are the booster amps that go with them.



The AR-50
NOW JITC
Certified



Modules and Amplifier Systems for Electronic Warfare

Modules and systems are available from 12 to 5,000 Watts. With all the features you need to dominate in EW, ECM and ECCM.

RF Jammer Amplifiers

(10-2700 MHz) for both portable and vehicle-mounted systems. From a few Watts to a few hundred Watts!

Quality. Better Warranty.

AR delivers innovative technology, advanced design, quality & workmanship, mismatch capability, durability, less cost watt for watt, and a worldwide support network that is here for you today, tomorrow, and always. Everything we sell is backed by the best comprehensive warranty in the industry.

GSA Schedule Available.

Visit GSA Advantage today (GS-07F-0371U).

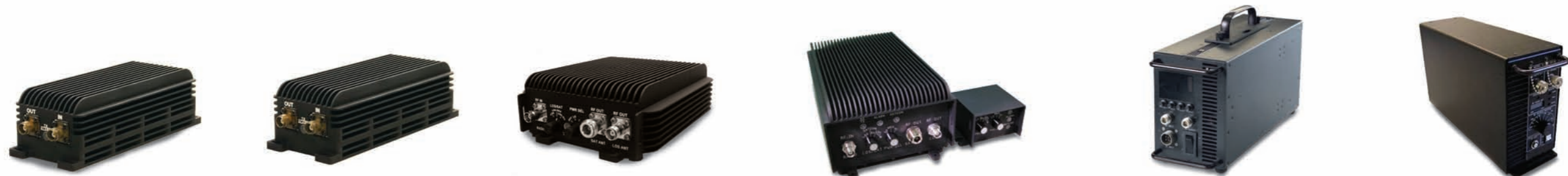
Tactical Radios Supported:

- Harris PRC-117F
- Harris PRC-117G
- Harris PRC-152
- Thales MBITR PRC-148
- Raytheon PSC-5D
- ARC-210
- Plus Others

KMW1031KT

The KMW1031 amplifier is now available as a complete kit! The KMW1031 kit includes amplifier, 30-512 MHz antenna, RF cables, battery cable and tactical vest pouches for both the amp and the antenna. The KMW1031KT is the "lightest" 20 Watt amplifier kit on the market weighing less than 2.5 lbs.





Feature	KMW1031	AR-35	AR-50	AR-75	KMW2030/KMW2030 ABS	KMW2050
Frequency Range	30 - 512 MHz	30 - 512 MHz	30 - 512 MHz	30 - 512 MHz	30 - 512 MHz	225-400 MHz
Power Output	20 Watts CW 20 Watts PEP	35 Watts CW 35 Watts PEP	50 Watts CW 50 Watts PEP	75 Watts CW/PEP 30-320 MHz 50 Watts CW/PEP 320-512 MHz	125 Watts 30 - 400 MHz, ±1 dB 450 - 512 MHz, +1 dB, -2 dB	200 Watts
Selectable Output Power Switch	n/a	n/a	Yes	Yes	Yes	Yes
Input Power	<2W typical, 10W max without damage	<2W typical, 10W max without damage	<5W typical, 20W max without damage	5W typical, 20W max without damage	2- 20 Watts	1.5-25 Watts
RF Key Sensitivity	1 Watt	1 Watt	1 Watt	1 Watt	1 Watt	1.5 Watt
T/R Switchover Time	SINGGARS, HAVEQUICK Compatible, HPW and DAMA capable	SINGGARS, HAVEQUICK Compatible, HPW and DAMA capable	SINGGARS, HAVEQUICK Compatible, HPW and DAMA capable	SINGGARS, HAVEQUICK Compatible, HPW and DAMA capable	SATCOM DAMA Compatible	SATCOM DAMA Compatible
SATCOM Rx LNA	External LNA available	External LNA available	Built-in	Built-in	Yes with KMW2030P	Built-in
SATCOM Rx LNA Gain/Noise Figure	12 dB/3 dB nominal	12 dB/3 dB nominal	12 dB/3 dB nominal	10 dB/3 dB nominal	12 dB/2 dB nominal	16 dB/5.5 dB nominal
SATCOM Rx Co-site Filter	-35 dB nominal	-35 dB nominal	-35 dB nominal	-50 dB nominal	-50	-50 dB nominal
Insertion Loss (Bypass)	1.5 dB nominal	1.5 dB nominal	1.5 dB nominal	1.5 dB typical	1.5 dB nominal	≤0.7 dB; Bypass mode
Modulation	AM/FM/PM, HAVEQUICK, SINGGARS and other JTRS waveforms	AM/FM/PM, HAVEQUICK, SINGGARS and other JTRS waveforms	AM/FM/PM, HAVEQUICK, SINGGARS and other JTRS waveforms	AM/FM/PM, HAVEQUICK, SINGGARS and other JTRS waveforms	AM, FM or PM	AM, FM or PM
Duty Cycle	Tactical operations	Tactical operations	Tactical operations	Tactical operations	Tactical operations	Tactical operations
Input/Output Impedance	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal
Input VSWR	1.5:1 nominal	1.5:1 nominal	1.5:1 nominal	1.5:1 nominal	1.5:1 nominal	1.5:1 nominal
Harmonics	-60 dBc typical	-60 dBc typical	-60 dBc typical	-60 dBc typical	-65 dBc typical	-60 dBc typical
Spurious Outputs	-70 dBc	-70 dBc	-70 dBc	-75 dBc	-70 dBc	-70 dBc
Power Requirements	12-33 VDC, from Battery or 12 and 24 VDC vehicle systems, filtered and transient protected	12-33 VDC, from Battery or 12 and 24 VDC vehicle systems, filtered and transient protected	12-33 VDC, from Battery or 12 and 24 VDC vehicle systems, filtered and transient protected	18-36 VDC, filtered and transient protected	19-32 VDC	28 VDC
Current@24 VDC nominal	3 Amps nominal	4.5 Amps nominal	7.5 Amps nominal	11 Amps nominal	25 Amps nominal	25 Amps nominal
Operating Temperature	- 30 to +60 °C	- 30 to +60 °C	- 30 to +60 °C	- 30 to +60 °C	-20 to + 50 °C	-20 to + 50 °C
Altitude (Operating)	15,000 ft	15,000 ft	15,000 ft	15,000 ft	15,000 ft	200 Watt to 6000 ft 150 Watt to 10,000 feet
Water	66 ft for 20 minutes	66 ft for 20 minutes	IP67	IP67	Weatherproof	Weatherproof
Vibration/Shock/Humidity	Per MIL STD 810F	Per MIL STD 810F	Per MIL STD 810F	Per MIL STD 810F	Per MIL STD 810E	Per MIL STD 810E
Size (HxWxD) Inches	2.30 x 3.00 x 7.70	2.30 x 3.00 x 7.70	2.70 x 6.00 x 7.75	6.5 x 4.25 x 11.70	7.00 x 5.00 x 13.50	8.25 x 4.50 x 15.50
Weight	2 lb	2 lb	3.5 lb	12.5 lb	17 lb	12 lb
Cooling	Natural convection required	Natural convection required	Natural convection required	Natural convection required	Built-in fan	Built-in fan-
RF Connectors	TNC Female	TNC Female	TNC, N-Type, BNC Female	TNC, N-Type, BNC Female	N-Type Female	N-Type Female
Construction	Aluminum housing with integral heatsink	Aluminum housing with integral heatsink	Aluminum housing with integral heatsink	Aluminum housing with integral heatsink	Aluminum housing with integral heatsink	Aluminum housing with integral heatsink
JITC Certified	No	No	Yes	In Process	Yes	Yes
GSA Schedule	Yes	Yes	Yes	Yes	Yes	Yes

Cable assemblies, power cables, shock-mount kits and other accessories are available for booster amplifiers.

AR's Infinite Solutions

We'll Customize to your Specs!

AR Modular RF is set-up to create customized variations of our products to meet your specifications. We'll work with you to create a solution that's right for your needs. And you won't have to wait forever or spend a fortune to get exactly what you need.



Custom Modules



Custom Navy System



Custom Wafer Clean-
ing Amplifier



Custom 5kW System
for MUOS Program

Accessories:

External LNA, Bias-T, Shock Mount Kits, Cables, Tactical Pouches, Antennas. Call for more!



Tactical Vest Pouch



AR-75 Remote Control



Bias-T's



Shock Mount Kit

Want to know more about AR? Need help with any RF solutions or testing procedures?

Here's how to reach AR and get all the help you need:

Global Promise

AR Modular RF warrants each product to be free from defects in material and workmanship for a period of thirty-six (36) months from invoice date. AR Modular RF will repair the product at no charge for parts and labor should failure prove to have been caused by a factory defect as disclosed by our examination. Please see your equipment manual for the full statement of warranty conditions and limitations of liability.

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ar receiver systems

Tel 800-933-8181

ar europe

• Offering a complete line of RF Products and testing solutions for the European Market

