



MODEL AR-20 (KT & KT-DUAL)
20 WATTS
30-512 MHz

The Model AR-20 is a portable, lightweight, fully automatic band-switching RF booster amplifier for use with multi-band VHF/UHF Tactical Radio equipment employing legacy, proprietary and networking waveforms. The AR-20 produces 20 Watts from a 1 to 2 Watt PEP radio input and covers the frequency band of 30-512 MHz. The unit has a wide range input DC voltage allowing operation from a single battery (XX90 battery) or 12 and 28 VDC vehicle power sources.

It also includes Over Temperature Protection, RF sensing, T/R Switching, Automatic Level Control (ALC), Harmonic Filters, Co-Site filters and protection against antenna mismatch. The AR-20 also has a built-in internal LNA that can be switched on or off by the front panel switch to improve SATCOM receive performance. The amplifier is comprised of a rugged 4-piece aluminum case. Optional interface coaxial cables, DC battery cables, and kits for man-packing the amplifier are available.

GENERAL SPECIFICATIONS

Table with 2 columns: Specification Name and Value. Includes rows for Frequency Range, Power Output, Input Power Range, RF Keying Sensitivity, T/R Switchover Time, LNA Noise Figure, LNA Gain, Modulation, Duty Cycle, Input/Output Impedance, Input VSWR, Harmonics, Spurious Outputs, Power Requirement, and Current.

ENVIRONMENTAL SPECIFICATIONS

Table with 2 columns: Specification Name and Value. Includes rows for Operating Temperature, Altitude (operating), Immersion (water), and Vibration / Shock / Humidity / Enviro.

MECHANICAL SPECIFICATIONS

Table with 2 columns: Specification Name and Value. Includes rows for Size (HxWxD), Weight, Cooling, RF Connectors, DC Connector, and Construction.

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OPTIONAL EQUIPMENT & ACCESSORIES

Speak with your AR Modular RF sales representative for optional equipment and accessories including, power pig tails, mounting plates, and other items.



(AR-20)

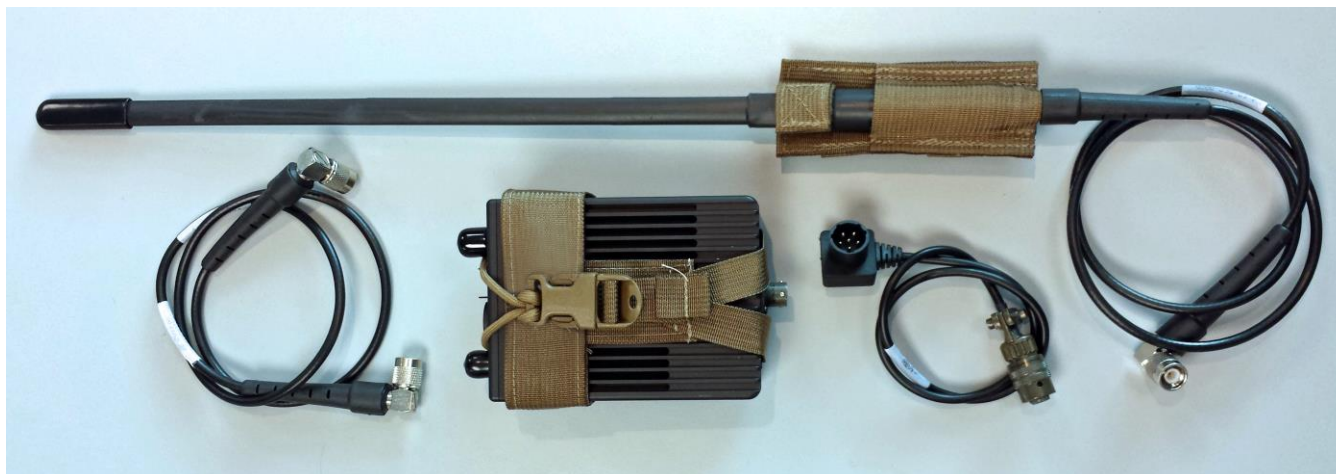
AR-20KT

AR-20	20 Watts, 30-512 MHz RF Booster Amplifier w/LNA
BC20	Battery Cable (22" cable connecting AR-20 to one XX90 or similar batteries)
RC20	Radio Cable (36" TNC Male to TNC Male)
AC20	Antenna Cable (36" TNC Male to TNC Female)
TVP20	Tactical Vest Pouch (Attaches to any MOLLIE/PALS style gear for holding the AR-20)
ANT20	Blade Antenna 30-512 MHz (TNC Male)
TAH20	Tactical Antenna Holder (Attaches to any MOLLIE/PALS style gear for holding the ANT20)

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(AR-20KT)

AR-20KT-DUAL

AR-20	20 Watts, 30-512 MHz RF Booster Amplifier w/LNA
BC20	Battery Cable (22" cable connecting AR-20 to one XX90 or similar batteries)
RC20	Radio Cable (36" TNC Male to TNC Male)
AC20	Antenna Cable (36" TNC Male to TNC Female)
TVP20	Tactical Vest Pouch (Attaches to any MOLLIE/PALS style gear for holding the AR-20)
TAH20	Tactical Antenna Holder (Attaches to any MOLLIE/PALS style gear for holding the ANT20)
ANT20	Blade Antenna 30-512 MHz (TNC Male)
RH-2535	RamHead Tactical SATCOM Antenna and RF Cables
SSH1031	SATCOM Switch Holder (Attaches to any MOLLIE/PALS style gear for holding the RFS-117)
SATCOM SWITCH	RF Switch Kit – LOS/SATCOM w/TNC adapter



(AR-20KT-DUAL)

MODEL CONFIGURATIONS

MODEL NUMBER	DESCRIPTION	WEIGHT
AR-20	20W Amp only	1 lb 10 oz
KT-AR-20	20W Amp with LOS antenna, cables, and pouches	2 lbs 15 oz
KT-DUAL-AR-20	20W Amp with LOS and SATCOM antennas, switch, cables, and pouches	4 lbs 5 oz

