



MODEL AR-20B (BKT & BKT-DUAL)
MODEL AR-20B-C2 (C2BKT & C2BKT-DUAL)
20 WATTS CW/PEP
30-512 MHz

The Model AR-20B and AR-20B-C2 are 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-20B and AR-20B-C2 produce 20 Watts and cover the frequency band of 30-512 MHz. The units have a wide range input DC voltage allowing operation from a single battery (XX90 battery) or 12 and 28 VDC vehicle power sources.

The amplifiers also include Over Temperature Protection, RF sensing, T/R Switching, Automatic Level Control (ALC), Harmonic Filters, Co-Site filters and protection against antenna mismatch. The amplifiers are comprised of a rugged 4-piece aluminum enclosure. The AR-20B and AR-20B-C2 are the simpler version of the 20W family without an LNA and power select. 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, 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 (H x W x D), Weight, Cooling, RF Connectors, DC Connector, and Construction.

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### OPTIONAL EQUIPMENT & ACCESSORIES:

PART NUMBER	DESCRIPTION
MP-AR-20-01	Mounting plate – length mount
MP-AR-20-02	Mounting plate – width mount

Speak with your AR Modular RF sales representative for additional accessories including power pig tails and other items.



(AR-20B 20W amp only without LNA shown)

### AR-20BKT and AR-20B-C2BKT:

(Kit configuration is dependent on amplifier)

PART NUMBER	DESCRIPTION
AR-20B	20 Watts, 30-512 MHz RF Booster Amplifier (TNC radio port)
AR-20B-C2	20 Watts, 30-512 MHz RF Booster Amplifier (BNC radio port)
BC-20	Battery Cable (22" cable connecting AR-20B to one XX90 or similar batteries)
RC-20	Radio Cable (36" TNC Male to TNC Male)
RC-20-C2	Radio Cable (36" N-type Male to BNC Male)
AC-20	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)



(AR-20BKT shown)

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### AR-20BKT-DUAL and AR-20B-C2KT-DUAL: (Kit configuration is dependent on amplifier)

AR-20B	20 Watts, 30-512 MHz RF Booster Amplifier (TNC radio port)
AR-20B-C2	20 Watts, 30-512 MHz RF Booster Amplifier (BNC radio port)
BC-20	Battery Cable (22" cable connecting AR-20B to one XX90 or similar batteries)
RC-20	Radio Cable (36" TNC Male to TNC Male)
RC-20-C2	Radio Cable (36" N-M to BNC-M)
AC-20	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)
LC20	Antenna Blade (RF SW-LOS Blade Antenna STR BNC M-TNC F 36")
SC20	BNC M to TNC M 36" SATCOM Antenna Cable
RFS117	RF Switch Kit – LOS/SATCOM w/TNC adapter



(AR-20BKT-DUAL shown)

### MODEL CONFIGURATIONS:

MODEL NUMBER	DESCRIPTION	WEIGHT
AR-20B	20W Amp only (TNC radio port)	1 lb. 10 oz
AR-20B-C2	20W Amp only (BNC radio port)	1 lb. 10 oz
AR-20BKT	20W Amp (TNC radio port) with LOS antenna, cables, and pouches	2 lbs. 15 oz
AR-20B-C2KT	20W Amp (BNC radio port) with LOS antenna, cables, and pouches	2 lbs. 15 oz
AR-20BKT-DUAL	20W Amp (TNC radio port) with LOS and SATCOM antennas, switch, cables and pouches	4 lbs. 5 oz
AR-20B-C2KT-DUAL	20W Amp (BNC radio port) with LOS and SATCOM antennas, switch, cables and pouches	4 lbs. 5 oz



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