

HANDHELD MOBILE COMMUNICATIONS CASE QUAD AN/PRC-152/152A

The Tricom Research **TCR-HHR-05** is designed as a fly away communications kit for use with the AN/PRC-152 and AN/PRC-152A Multiband Radios. It allows an operator to rapidly install up to four LOS, SATCOM, or Wideband communications links virtually anywhere to include military and commercial vehicles. The compact case holds four TCR-MBA-50-WB Multiband RF Power Amplifiers (PA), two TCR-SPK-02 Dual-Net Amplified Speakers, an AC-DC power adapter, and an RF switch that allows automatic selection of the power amplifier output port to the antenna port based on the mode of operation. External connections are provided for RF Antenna, Ethernet (for VOIP), radio KDU/USB, and speaker remote power/audio.



Part #: 11000-00831, TCR-HHR-05

Radio and batteries NOT included

FEATURES

- Transmit amplification for the 30-512 MHz frequency range
- Carrier Detect Keying and Automatic Frequency Detection
- Automatic PA RF output port selection
- Ability to connect an external Voice Over IP (VOIP) Gateway Router
- Highly portable
- Integrated battery charging
- Two Dual-Net Amplified Speakers

TRANSMIT SPECIFICATIONS

SATCOM

Frequency Range	290-320MHz	
Switching Speed	JITC, DAMA, and IW Compatible	
Modulation	FM or Phase Modulation	
RF Power Input	2-10 Watts (20W without damage)	
RF Power Output	BA5590 (12.7 VDC, 4.5 A max):	10, 15, 20 Watts
	BA2590 (15 VDC, 4.5 A max):	10, 15, 25 Watts
	Commercial Vehicle (13.5 VDC, 5.5 A max):	10, 15, 20 Watts
	Military Vehicle (28 VDC, 6.5 A max):	10, 15, 25, 35, 50 Watts

LOS / WB MODE

Frequency Range	30-512 MHz with Automatic Frequency Detection / 225-450 MHz	
Modulation	AM/FM or Phase Modulation, AM/FM Frequency Hopping and ANW2/SRW	
RF Power Input	2-10 Watts (20W without damage)	
RF Power Output	BA5590 (12.7 VDC, 4.5 A max):	20 Watts
	BA2590 (15 VDC, 4.5 A max):	20 Watts
	Commercial Vehicle (13.5 VDC, 5.5 A max):	25 Watts
	Military Vehicle (28 VDC, 6.5 A max):	25 Watts, 50 Watts (LOS Only)

RECEIVE SPECIFICATIONS

SATCOM

Frequency Range	240-270 MHz
Noise Figure	3.75 dB typical
Receive Gain	10 dB or LNA Bypass

LOS / WB

Frequency Range	30-512 MHz / 225-450 MHz
Insertion Loss	< 1 dB / < 2.5 dB
VSWR	2.5:1 Max

GENERAL SPECIFICATIONS

Antenna Connectors	BNC Female
AC Connector	MS3112E12-3P
Speaker Connectors	DB15 Female
High Temperature	PA High Temperature Indication/Fold Back
AC Input	90-260 VAC, 50/60 Hz
DC Off	Routes radio RF Connectors to Antenna Connectors
Cooling	Air flow cooling for PA and inside case
Indicators	DC ON/Ext DC Applied/XX90 Battery Status/Radio Battery Charge Status
Dimensions	7.02" H x 20.5 W x 11.5" D
Weight	62 lb (without radios and batteries)