

# UHF AM Transceiver

## VTR-100/U Radio Set

Top quality, hi-performance, 225-400 MHz transceiver,  
Designed for the military user... Affordable to the civilian user...

- ◆ Military vehicles
- ◆ Airfields and air bases
- ◆ Easy to install
- ◆ Intuitive operation
- ◆ Use as mobile or base
- ◆ 100 channels
- ◆ 4 to 8 W power output



Compact, lightweight and affordable, the VTR100/U offers the flexibility to meet your specific communications needs in a cost-effective solution. This unit has been designed for voice communications over the entire UHF band from 225 to 399.975 MHz in 25 KHz increments (up to 7000 channels). In addition, the transceiver is provided with a serial data interface and the main input/output signals for total remote control.

The VTR100/U is your ideal choice for vehicular installation. It can easily be installed under the dash in any military or civilian type vehicle with a 12VDC nominal electrical power system. In addition, an optional AC power supply is offered to allow the radio to be installed as a base station.

For easy compatibility with existing accessories, this radio uses standard U.S. type military connectors (MIL-C-5516) which allows the use of any standard H-189/GR or H-250/U handset.

[www.morcom.com](http://www.morcom.com)

... Your Dependable Connection



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## Technical Specifications

**Frequency Band:** 225 to 399.975 MHz

**Operating Modes:** A3E AM

**Channel Spacing:** 25 KHz

**Pre-Programmable Channels:** Up to 100

**Output Power:** Adjustable from 4W to 8W

**Duty Cycle:** 4:1 (Rx / Tx)

**Modulation Index:** 95% max.

**Sensitivity:** >12dB SINAD with -97dBm, 30% modulation index

**AF Response:** 300 to 3400 Hz (+2dB to -4dB signal variation)

**Power Supply Voltage:** From 10.8 to 15.6 VDC

## Environmental

**Operating Temperature** -20° C to +55° C

**Storage Temperature** -40° C to +70° C

**Water and Dust Protection:** IEC 529 class IP54

**Vibration and Shock:** ETSI ETS 300 019-2-5

## Wide Array of Accessories Available

There is a complete range of accessories available for this radio, including:

- ◆ Vehicular mount antenna
- ◆ Handsets
- ◆ Headsets
- ◆ AC Power supply
- ◆ Base UHF antenna for fixed installation

## Standard Accessory Connectors

The front panel features a standard U-183/U, MIL-C-55116 connector for H-189/GR and H-250/U military handsets as well as a RP17-12 connector for auxiliary devices.

## Complete Control of the Radio

The VTR100/U hosts an emulation program that allows the user to configure and set all the parameters of the radio by connecting any personal computer using a terminal application emulator (like hyperterminal) to the service port in the front panel.

## Comprehensive Built-In Test Monitor (BIT)

Many different radio parameters are available for monitoring via the serial port on the front panel

## Capable of Being Installed in Any Dashboard

Easy to mount in (or under) a dashboard. Operates from standard 12VDC available on most vehicles.

## Memory Channel Capability

Up to 100 user-programmable channels are available for quick access to commonly used frequencies.

Preset channels may be changed by the user through the use of a personal computer. Just connect any PC with a terminal emulation program (like hyperterminal) to the service port of the front panel (no special software is required).

## Usable in All Conditions

All controls are backlit to allow operation at night or under low-light conditions.



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