

Model M15



The Model M15 mobile transceiver is a rugged and dependable aviation band radio designed specifically for the environmentally demanding, critical communications requirements of airport vehicles. It operates in the aviation VHF band of 118-136.975MHz. It is used in airport maintenance and official vehicles, de-icing equipment, ramp vehicles, and emergency vehicles. Used with part number 1101769 base unit, the M15 becomes an economical base transceiver or Unicom.

FEATURES of the M15:

- Modulation leveling to accommodate different voices and "microphone techniques"
- Designed for high vibration environments. No mechanical moving parts such as relays for increased dependability and durability.
- Operates from vehicle power.
- Uses an external vehicle mounted speaker. This affords greater operational flexibility.

BENEFITS of M15:

- Operation is simple and intuitive. No need to learn confusing and unused features.

- Easy channel selection even wearing PPE. (Personal Protective Equipment)
- All channels are crystal controlled for maximum safety and security.
 - Users cannot inadvertently change channels to unauthorized frequencies.
 - Minimizes unauthorized transmissions and interference on critical frequencies.
 - Discourages theft. Changing channel frequency requires changes crystals.

M15 OPTIONS:

Headphone Jack: ¼" standard headphone jack allows connection with a wide selection of headsets for users needing more personal communications. Also excellent for use in high noise environments.



Headphones: Select from either a single ear or dual ear style. Each has an enclosed microphone boom arm. For transceiver operation, order a PTT switch too. Dual ear headphones are great for those really noisy environments when you still need to communicate while "on the run".

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PTT Switch: Connect the headset mic input into this PTT Switch and you have a full transceiver mobile radio. PTT switch includes a Velcro strip to attach the ptt switch to any convenient location from a lawnmower handlebar to you wrist

Remote Control: Monitor transmissions of your M15 radio from an office while the radio is used in an operations area.

Base Power Supply:, Mentor part number 1101769, the M15 can become a dual purpose radio allowing fixed base operations yet retaining it's quick disconnect mobile functionality.

**M15 ACCESSORIES:**

Magnetic Mount Antenna: (PN: 1101271) Magnet base and antenna are sold either as a kit together or separately.

Through Hole Antenna: (PN: 1101274)

Ours is the standard vehicle mounted antenna. Antenna comes with coax cable and radio connector.

Enclosed Speaker: (PN: 2101451)

Rugged enclosed speaker with a mounting bracket suitable for mounting into a vehicle.

Power Supply Converter: (PN: MC6B)

The MC6B is designed for use on vehicles with 24 - 28 VDC power supply systems. This power supply converter converts 28 VDC into 14 VDC to run the M15 radio.

Base Unit: (PN: 1101769) - This is a case with a built in 115VAC power supply and speaker. The quick disconnect plug connects to the power plug of the M15 and provides base station functionality from this mobile radio.

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"Wireless Solutions for High-Tech Industries"

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SPECIFICATIONS:

Dimensions: 6" wide x 1.4" high x 9.5" deep

Power Required:

- 11-15 volts DC (negative ground)
- 0.2 amp (receive), 3.5 amps (transmit)

Temperature range: -20° F to +122° F (-30° C to +50° C)

Antenna Connector: SO-239 (UHF)

Number of Channels: 6 max.

Channel Spacing: 25 KHz

FCC ID: QQTM15

Receiver:

- Sensitivity: (a) 1 uv 50% mod. at 1 KHz gives at least 6 dB (S+N)/N (b) 3 uv 50% mod. at 1 KHz gives full audio output
- Selectivity: -3 dB at +/-8 KHz
- -60 dB at +/-25 KHz
- AGC: 3 dB 10-50,000 uv
- Audio Output: 3.8 watts min. into 4 ohm speaker without clipping

Transmitter:

- 5 watts of transmitter carrier power. (approx. 20 watts PEP, or Peak Envelope Power)
- Load Impedance: 50 ohms
- Freq. Tolerance: +/-0.002%
- Spurious Outputs: Meets FCC requirements

Modulation: 90% maximum, automatic microphone leveling

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