



## **G M R S: General Mobile Radio Service**

**WRMN270 REPEATER ON STONE MTN. GMRS R5 OR R19 – Frequency: 462.650 no tone.**

Any individual who holds an individual GMRS license may allow his or her immediate family members to operate his or her GMRS station or stations.

Immediate family members are the licensee's spouse, children, grandchildren, stepchildren, parents, grandparents, stepparents, brothers, sisters, aunts, uncles, nieces, nephews, and in-laws". No age limits!

- **GMRS as a Bridge Mode**
  - GMRS Allows Non-Hams to talk to Hams (i.e., licensed amateur radio operators)
  - Hams can communicate with non-ham-licensed family members, friends, and community members
- **Differences between GMRS and Amateur Radio**
  - The primary purpose of GMRS is for personal or business use, while the primary purpose of Amateur Radio is for hobby and emergency communications.
  - GMRS provides a simple and easy way to operate a radio for personal and business uses, while Amateur Radio provides more flexibility and capabilities, with a broader range of frequencies and power output, but it requires the operator to be licensed and have knowledge of the regulations.

## **GMRS Licensing...**

- You can apply for a GMRS license online, or by filing FCC Form 605.
- Licenses are granted for 10 years.
- No Test!
- \$35
- One license covers you and your immediate family (husband, wife, kids, siblings, grandparents, aunts, uncles, even In-Laws!)

## **More Info...**

- MyGMRS.com
  - Repeater Lists and locations, equipment, store, tips
- Facebook
  - Smoky Mountain GMRS Users
  - Ham Radio Elmers / GMRS Users
- US GMRS Association (<https://USAGMRS.com>)
- <https://www.fcc.gov/general-mobile-radio-service-gmrs>

## **CONTACT INFORMATION:**

JOHNSON COUNTY AMATEUR RADIO CLUB

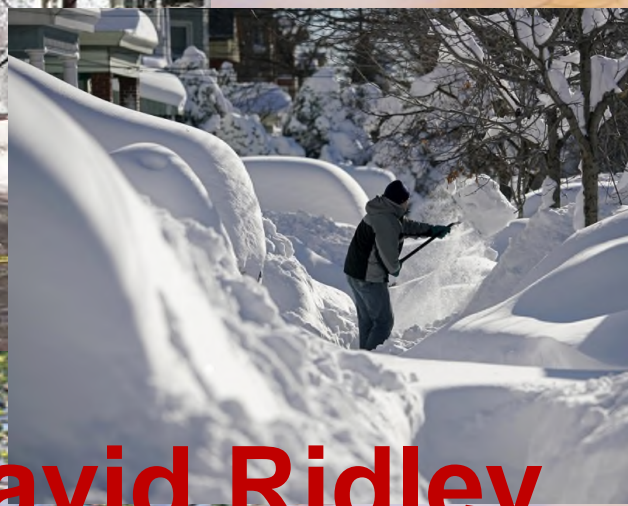
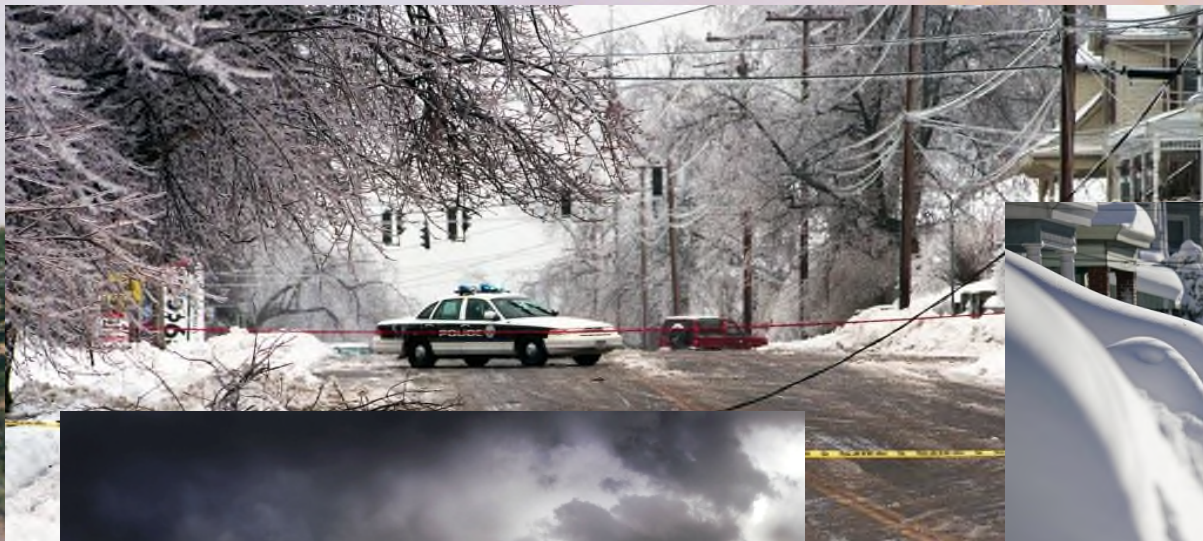
PO BOX 83 MOUNTAIN CITY TN 37683

[info@W4MCT.com](mailto:info@W4MCT.com)

FACEBOOK: JOHNSON COUNTY AMATEUR RADIO CLUB

WEB SITE: <https://W4MCT.COM>

GRMS on the WEB: Search for "WRMN270 Repeater"



**David Ridley**  
**KX4UK**  
**GMRS**

**General Mobile Radio Service**



## What is G M R S? General Mobile Radio Service

- ❖ A FCC-licensed radio service that uses channels around 462 MHz and 467 MHz
- ❖ Short-distance, two-way voice communications using hand-held radios, mobile radios, and repeater systems
- ❖ Requires Callsign ID every 15 minutes
- ❖ GMRS radios and repeaters can use up to 50 watts of power /  
Text Messaging / GPS Data

## What GMRS is Not.

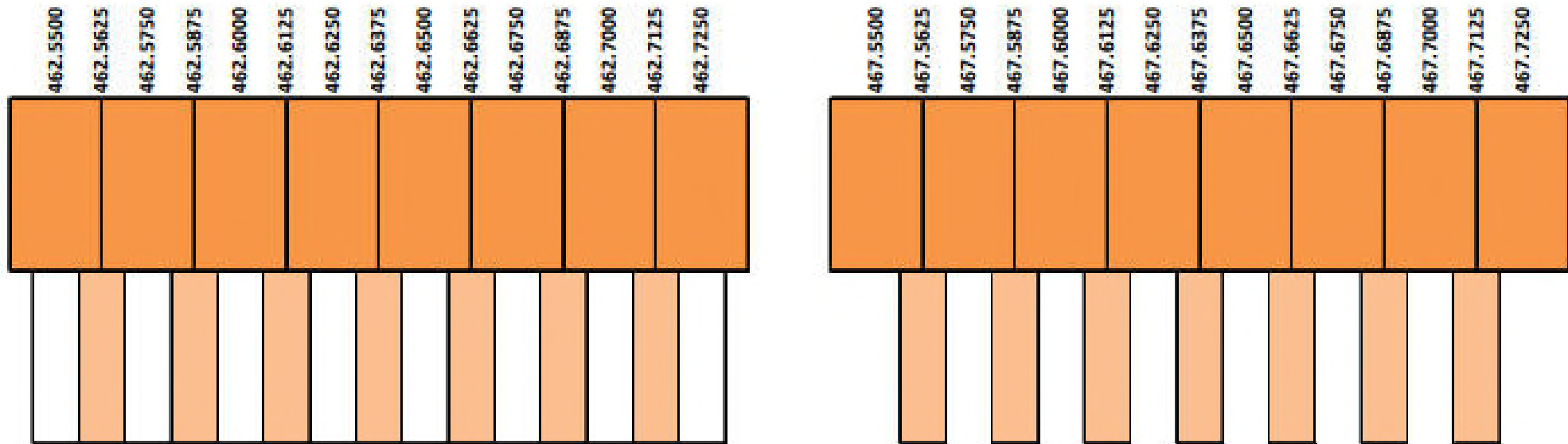
### It is NOT FRS (Family Radio Service)




- ❖ FRS 2 Watt Maximum
- ❖ FRS must have a FIXED antenna
- ❖ FRS is simplex only and cannot transmit on GMRS repeater input frequencies. Uses same frequencies as GMRS.
- ❖ FRS does not require a license



# GMRS / FRS Frequencies / Power / Bandwidth

## New Channel Allotment for GMRS and FRS



-  GMRS Main Channels, 25KHz, 50 W power
-  GMRS/FRS Interstitial Channels, 12.5 KHz. 467 MHz power 0.5 W. 462 MHz power: 2 W for FRS, 5 W for GMRS channels.
-  New FRS Channels, 12.5 KHz, 2 W power



# GMRS Licensing

- You can apply for a GMRS license online, or by filing FCC Form 605.
- Licenses are granted for 10 years.
- No Test!
- \$35 Now (used to be \$70)
- One license covers you and your immediate family (husband, wife, kids, siblings, grandparents, aunts, uncles, even In-Laws!)



“Any individual who holds an individual license may allow his or her immediate family members to operate his or her GMRS station or stations.

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**No age limits!**



# GMRS Repeaters



“A GMRS licensee may use a combination of portable, mobile, fixed and repeater stations consistent with the operational and technical rules in Subpart E of Part 95”



Motorola M - 1225  
Wouxun KG – 1000G  
Motorola MaxTrac

No Coordination  
No Application Fees





# GMRS Portable / Mobile Equipment





**GMRS Repeater?**

**What's in it for the  
Johnson County Community?**



## Lack of Cellular Coverage in Mountain Areas

Hikers

Boaters

Four – Wheelers

Climbers

Family Day – Trippers

Bikers

Campers

Horse Riders

Youth Groups

Public Events



# Amateur Radio

## ➤ GMRS as a Bridge Mode

GMRS Allows Non-Hams to talk to Hams

Hams can communicate with non-ham-licensed family members, friends, and community members

## ➤ GMRS as a Gateway Mode

Ham radio operators act as ambassadors for the hobby

Recreational and community members are attracted to ham radio through the use of GMRS radios (21<sup>st</sup> Century CB)





# Community Information

Friends and family members can communicate with each other during work or recreational activities in remote areas

Community members can pass information and assist each other with services, advice, and help those in need in real time

Publicize community events in the county

Suspicious persons, activity, or BOLO pets, people, vehicles

Weekly Nets



# Emergency Management

## Loss of Power, Cellular Phones, Internet, Cable TV, Telephone Service

- Weather Reports
- Road Conditions
- Dangerous Conditions
- Power Outages
- Requests for supplies
- Neighbor Assistance
- Evacuation Routes
- Safe Zones / Shelter-in-Place
- Situation Updates
- Dispatch Center
- Emergency Operations Center
- Law Enforcement Vehicles
- Fire Departments
- JC Memorial Hospital
- Government Administrators
- Public Information Officers
- Local Utilities
- CERT Teams / Red Cross

A landscape photograph showing a mix of green and dead trees. The sky is hazy and orange-tinted, suggesting a sunset or sunrise. The text is overlaid on the image.

# Professional Public Image Community Partnership

Recognition to the members of the  
Johnson County Amateur Radio Club  
for providing this affordable and  
critical service to its community



## **More Info...**

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➤ **47 C.F.R. Part 95 Subpart E**