

## FRS vs. GMRS

Based on the rules adopted in 2017

ERP = Effective Radiated Power (out of the antenna)

TPO = Transmitter Power Output (out of the radio)

FRS and GMRS stations are allowed to talk to each other.

Channels 1 through 14 are referred to as interstitial in the rules.  
This is because the frequency falls between the main frequencies.

GMRS repeater stations are commonly referred to by the last 3 digits of the frequency.



Personal  
Radio  
Fun

YouTube channel

<b>Family Radio Service &amp; General Mobile Radio Service Channel and Power Allocations</b>					
Description	Frequency	FRS	FRS Max power	GMRS	GMRS Max power
Channel 1	462.5625	FRS 01	2 Watts ERP simplex only	GMRS 01	5 Watts ERP simplex only
Channel 2	462.5875	FRS 02		GMRS 02	
Channel 3	462.6125	FRS 03		GMRS 03	
Channel 4	462.6375	FRS 04		GMRS 04	
Channel 5	462.6625	FRS 05		GMRS 05	
Channel 6	462.6875	FRS 06		GMRS 06	
Channel 7	462.7125	FRS 07		GMRS 07	
Channel 8	467.5625	FRS 08	0.5 Watts ERP Simplex only	GMRS 08	0.5 Watts ERP Simplex only with a <b>handheld only</b>
Channel 9	467.5875	FRS 09		GMRS 09	
Channel 10	467.6125	FRS 10		GMRS 10	
Channel 11	467.6375	FRS 11		GMRS 11	
Channel 12	467.6625	FRS 12		GMRS 12	
Channel 13	467.6875	FRS 13		GMRS 13	
Channel 14	467.7125	FRS 14		GMRS 14	
Channel 15	462.550	FRS 15	2 Watts ERP simplex only	GMRS 15	50 Watts TPO Simplex and repeater output
Channel 16	462.575	FRS 16		GMRS 16	
Channel 17	462.600	FRS 17		GMRS 17	
Channel 18	462.625	FRS 18		GMRS 18	
Channel 19	462.650	FRS 19		GMRS 19	
Channel 20	462.675	FRS 20		GMRS 20	
Channel 21	462.700	FRS 21		GMRS 21	
Channel 22	462.725	FRS 22	GMRS 22		
Repeater Channel 15	467.550	Not part of FRS	550	50 Watts TPO Radio transmits to the repeater	
Repeater Channel 16	467.575		575		
Repeater Channel 17	467.600		600		
Repeater Channel 18	467.625		625		
Repeater Channel 19	467.650		650		
Repeater Channel 20	467.675		675		
Repeater Channel 21	467.700		700		
Repeater Channel 22	467.725		725		

462 Interstitial

467 Interstitial

462 Main

467 Main

### **Family Radio Service**

No license (called license by rule)

Handheld radios with a fixed antenna

#### **Benefits:**

No license.

Radios can be purchased locally.

Short range communication.

If others can't transmit long ranges then there are less users that will interfere with you.

### **General Mobile Radio Service**

License needs to be purchased. No testing. FCC call sign given.

Handheld or mobile radios that can have a removable antenna.

Repeater stations allow increased range.

#### **Benefits:**

You can use bigger antennas for longer range.

More powerful radios can be used. Up to 50 Watts.

Repeaters