

QwikRadio® Selection Guide

Micrel Advantage

- Highest Integration
- High Performance
- Easy to Design with No Tuning Required
- Low External Part Count
- Extended Distance Capability (Best Sensitivity)

QwikRadio® RF Transmitters

Device	Frequency Range	Selection Data Rate	Supply Current (Mean)	Operating Voltage (Min.)	Modulation Type	Package	Key Features
MICRF102	300MHz–440MHz	20kbps	5.7mA	4.75V	ASK/OOK	SOIC-8	
MICRF103	800MHz–1GHz	115kbps	16mA	4.75V	ASK/OOK	SOIC-8	
MICRF104 ⁽¹⁾	300MHz–440MHz	20kbps	12mA	1.8V	ASK/OOK	SOIC-14	
MICRF112	300MHz–450MHz	50kbps ASK 10kbps FSK	8.5mA 12mA	1.8V 1.8V	ASK/OOK ASK/OOK	MSOP-10 MSOP-10	Operates 1.8 to 3.6V. Max Temp. +125°C to -40°C.
MICRF113 <i>New!</i>	300MHz–400MHz	10kbps ASK	8.5mA	1.8V	ASK/OOK	SOT-23	Low Pin Count ASK/OOK Transmitter.

QwikRadio® RF Receivers

Device	Frequency Range	Maximum Data Rate	Supply Current	Power Cycle	Modulation Type	Package	Key Features
MICRF001	300MHz–440MHz	4.8kbps	6.3mA		ASK/OOK	SOIC-14, PDIP-14	
MICRF011	300MHz–440MHz	10kbps	2.4mA		ASK/OOK	SOIC-14, PDIP-14	
MICRF002	300MHz–440MHz	10kbps	2.4mA	Yes	ASK/OOK	SOIC-16, PDIP-16	Power-Cycle Mode.
MICRF022	300MHz–440MHz	10kbps	2.4mA	Yes	ASK/OOK	SOIC-8	Smaller Package.
MICRF005 ⁽¹⁾	800MHz–1GHz	115kbps	10mA	Yes	ASK/OOK	SOIC-14	900MHz, Rx.
MICRF007	300MHz–440MHz	1.2kbps	3.0mA	Yes	ASK/OOK	SOIC-8	
MICRF008	300MHz–440MHz	4.8kbps	7mA	Yes	ASK/OOK	SOIC-8	Lowest Cost.
MICRF009	300MHz–440MHz	2kbps	2.9mA	Yes	ASK/OOK	SOIC-16	Good Sensitivity.
MICRF010	300MHz–440MHz	2kbps	2.9mA	Yes	ASK/OOK	SOIC-8	Good Sensitivity.
MICRF211	380MHz–450MHz	10kbps	6mA	Yes	ASK/OOK	QSOP-16	3.0V to 3.6V Op. Voltage. -110dBm Sensitivity.
MICRF213	300MHz–350MHz	7.2kbps	3.9mA	Yes	ASK/OOK	QSOP-16	3.0V to 3.6V Op. Voltage. -110dBm Sensitivity.
MICRF218 <i>New!</i>	300MHz–450MHz	10kbps	4mA	Yes	ASK/OOK	QSOP-16	Dual IF BW: narrow IF for performance. Wide IF to capture signal from low cost transmitters.
MICRF221 <i>New!</i>	50MHz–950MHz	10kbps	9.5mA	Yes	ASK/OOK	QSOP-16	900MHz, -109dBm Sensitivity.

1. Not recommended for new designs.