

# RadioWire® and QwikRadio® RF Selection Guide

## Micrel Advantange

- Highest Performance Transceivers
- Lowest Power
- High Sensitivity
- Micrel Net
- Low Component Count
- Easy to Design
- Modules Available

## RF Remote Packet Generator

Device	Data Rate	Internal Address	Address Combos	CRC	Supply Current	Supply Voltage	Temp. Range	Package
MICRF302 <i>New!</i>	<4.8kbps	20-bit	>1M	8-bit	130µA	1.8V to 3.6V	-40°C to +85°C	MLF-10 (2.5mm x 2.5mm)

\*See Product Highlight on previous page.

## RF Transmitter (QwikRadio® and RadioWire®)

Device	Frequency Range	Modulation	Data Rate/ Modulation	Output Power	Supply Current	Supply Voltage	Temp. Range	Package
MICRF405 <i>New!</i>	290MHz-980MHz	ASK FSK	<200kbps FSK <50kbps ASK	+10dBm	18mA	2.2V to 3.6V	-40°C to +125°C	MLF-24 (4mm x 4mm)
MICRF113	300 to 450MHz	ASK OOK	<10kbps	+10dBm	12.3mA	1.8V to 3.6V	-40°C to +85°C	SOT-23-6 (2.8mm x 2.9mm)
MICRF112	300 to 450MHz	ASK FSK	<50kbps ASK <10kbps FSK	+10dBm	8.5mA 12.5mA	1.8V to 3.6V	-40°C to +125°C	MSOP-10 (3.0mm x 4.9mm)
MICRF103	800 to 1000MHz	ASK/OOK	115kbps	-3dBm	16mA	5V	-40°C to +85°C	SOIC-8 (4.9mm x 6.0mm)
MICRF102	300 to 470MHz	ASK/OOK	20kbps	-4dBm	4mA	5V	-40°C to +85°C	SOIC-8 (4.9mm x 6.0mm)

## RF Receivers (QwikRadio®)

Device	Frequency Range	Modulation	Maximum Data Rate	Sensitivity	Supply Current	Supply Voltage	Temp. Range	Package
MICRF221 <i>New!</i>	850 to 950MHz	ASK/OOK	<10kbps	-109dBm @1kbps	9.0mA	3.0V to 3.6V	-40°C to +105°C	QSOP-16 (4.9mm x 6.0mm)
MICRF219 <i>New!</i>	300 to 450MHz	ASK/OOK	<10kbps	-110dBm @ 1kbps	4.0mA	3.0V to 3.6V	-40°C to +105°C	QSOP-16 (4.9mm x 6.0mm)
MICRF218	300 to 450MHz	ASK/OOK	<10kbps	-110dBm @ 1kbps	5.5mA	3.0V to 3.6V	-40°C to +85°C	QSOP-16 (4.9mm x 6.0mm)
MICRF213	300 to 350MHz	ASK/OOK	<7.2kbps	-110dBm @ 1kbps	3.9mA	3.0V to 3.6V	-40°C to +105°C	QSOP-16 (4.9mm x 6.0mm)
MICRF211	380 to 450MHz	ASK/OOK	<10kbps	-110dBm @ 1kbps	6.0mA	3.0V to 3.6V	-40°C to +105°C	QSOP-16 (4.9mm x 6.0mm)
MICRF010	300 to 440MHz	ASK/OOK	<2kbps	-105dBm @ 1kbps	2.9mA	5V	-40°C to +85°C	SOIC-8 (4.9mm x 6.0mm)
MICRF009	300 to 440MHz	ASK/OOK	<2kbps	-104dBm @ 1kbps	2.9mA	5V	-40°C to +85°C	SOIC-8 (4.9mm x 6.0mm)
MICRF007	300 to 440MHz	ASK/OOK	<3.2kbps	-99dBm @ 1kbps	2.3mA	5V	-40°C to +85°C	SOIC-8 (4.9mm x 6.0mm)

## RF Transceivers (RadioWire®)

Device	Frequency Range	Modulation	Maximum Data Rate	Sensitivity	Output Power	Supply Current	Supply Voltage	Temp. Range	Package
MICRF505	850 to 950MHz	FSK	<200kbps	-111dBm @ 2.4kbps	+10dBm	13.5mA Rx 28mA Tx	2.0V to 2.5V	-40°C to +85°C	MLF-32 (5mm x 5mm)
MICRF506	410 to 450MHz	FSK	<200kbps	-113dBm @ 2.4kbps	+11dBm	12.0mA 21.5mA Tx	2.0V to 2.5V	-40°C to +85°C	MLF-32 (5mm x 5mm)

## RF Transceiver Modules

Device	Frequency Range	Modulation	Maximum Data Rate	Sensitivity	Output Power	Supply Current	Supply Voltage	Temp. Range	Package
MICRF600	902 to 928MHz	FSK	<20kbps	-111dBm @ 2.4kbps	9dBm	13.2mA Rx 28mA Tx	2.0V to 2.5V	-20°C to +75°C	11.5 x 14.1
MICRF610	868 to 870MHz	FSK	<15kbps	-111dBm @ 2.4kbps	8.5dBm	13.6mA Rx 26mA Tx	2.0V to 2.5V	-20°C to +75°C	11.5 x 14.1
MICRF620	430 to 440MHz	FSK	<20kbps	-110dBm @ 2.4kbps	10dBm	12mA Rx 23mA Tx	2.0V to 2.5V	-20°C to +75°C	11.5 x 14.1