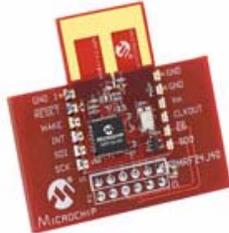




*A Leading Provider of Microcontrollers & Analog Semiconductors*

**Part Number: AC163028**  
**MRF24J40MA Radio Transceiver Module**



**Summary:**

MRF24J40MA is a certified 2.4 GHz IEEE 802.15.4 radio transceiver module. The MRF24J40MA has an integrated PCB antenna, matching circuitry, and supports the ZigBee™, MiWi™ and MiWi P2P protocols. The MRF24J40MA Module connects to hundreds of PIC® microcontrollers via a 4-wire SPI interface and is an ideal solution for wireless sensor networks, home automation, building automation and consumer applications.

**Features:**

2.4 GHz IEEE 802.15.4 Transceiver Module  
Supports ZigBee™, MiWi™, and MiWi P2P protocols  
FCC (USA), IC (Canada), ETSI (Europe) Certified  
Integrated PCB Antenna with  
Simple four-wire SPI interface to PIC® microcontroller  
Integrated 20 MHz and 32.768 kHz oscillator drive  
Low current consumption  
- Tx 19mA  
- Rx 23mA  
- Sleep 2uA  
Hardware CSMA-CA Mechanism  
Automatic ACK response  
Hardware security engine (AES-128)  
Automatic packet retransmit capable  
Surface Mountable