The ZM3102 represents the third-generation of Z-Wave® wireless technology, and is ideal for easily adding Z-Wave® control and status capabilities to home control, home security monitoring, and home energy management products. The ZM3102 module includes a Z-Wave® chip and external components required to implement a complete, drop-in solution.

The wireless mesh network technology automatically routes the RF signal from one Z-Wave® node to the next, around obstacles and radio dead spots, resulting in high reliability and assured whole-home coverage.

The ability to also use the Z-Wave® protocol over IP (Internet Protocol) networks allows Z-Wave® enabled products to connect seamlessly using the wireless mesh network, the home network, and the Internet.

Z-Wave® allows both manufacturers and consumers the security of knowing that Z-Wave® certified products, regardless of brand, will work together.
**ZM3102 Z-Wave® Integrated Wireless Module for Home Control**

**Features**
- 32 KB Flash Memory
- Z-Wave SW API
- User Application SW
- 2 KB SRAM
- 128 bytes SRAM
- UART
- 8051 CPU
- Triac Ctrl
- SPI Ctrl
- Interrupt Ctrl
- System Clock
- General Purpose Timer
- Watchdog
- 8/12 Bit ADC
- WUT
- Frame Handler
- Modem
- SPI UART Triac Out PWM Analog In
- Antenna (OPTIONAL)

**Specifications**
- **Frequency**: 868.40...921.42 MHz
- **Program Memory**: 32 KB flash, 64 KB OTP
- **SRAM**: 2 KB, 16 KB
- **NVRAM**: 64 B
- **GPIO**: 10, 32, 10
- **Keyboard Scan**: 128 keys
- **UARTs**: 1, 2, 1
- **SPI Ports**: 1, 2, 1
- **USB**: *
- **AES Security**: *
- **IR Transmitter**: *
- **IR Learning**: *
- **Data Rate**: 40 kbps, 100 kbps

**Z-WAVE® HOME CONTROL MODULE SELECTION GUIDE**

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