Z-Wave® Wireless Controller for CE and Set-top Box Products





The SD3402 represents the fourth-generation of Z-Wave® wireless technology, and is ideal for easily adding Z-Wave® control and status capabilities to RF remote controls, set-top boxes, and CE products.

For RF remote control applications, Z-Wave® overcomes the line-of-sight limitation of IR, enabling reliable two-way communications and whole-home coverage. Program names, song titles, artist names, channel identification, etc. can now be seen from the remote control.

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 wholehome 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.

Target Markets

- RF/IR remote control
- Set-top boxes, thin clients, and CE products that support home security monitoring and home energy management

Benefits

- Integration of home, entertainment, security, and energy management control with metadata support
- Seamless interoperability between multiple vendors and applications
- Robust and reliable whole-home coverage through mesh networking
- Z-Wave® protocol over IP (Internet Protocol) networks, such as home network and Internet
- Supports unicast, multicast, and broadcast messages
- Low power consumption for multi-year battery life

Features

- Integrated CPU and RF transceiver
- IR transmitter
- 64KB OTP, 16KB SRAM, 64B NVRAM
- 1000 DIM step Triac controller
- 4-ch 12-bit rail-to-rail ADC
- Integrated GPIO, SPI, UART, PWM, USB, 88-key matrix scan
- AES 128 security engine
- 4-ch LED controller
- Ultra-low power sleep mode
- 100 kbps data rates, low latency
- Uses frequency bands 779...956 MHz for complete global coverage
- Concurrent multi-channel support reduces external interference
- Superior blocking performance
- Battery monitor and built-in supply regulators
- Power supply: 2.3-3.6V

Powering the new digital home









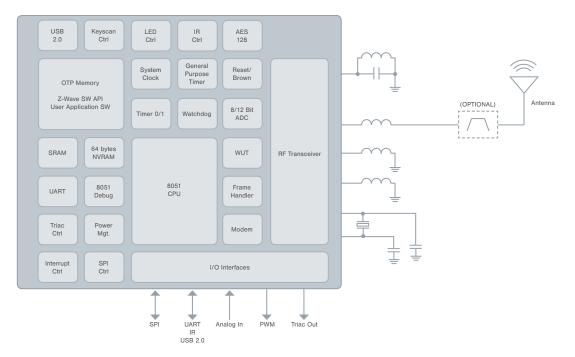




SD3402

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Z-Wave® CE/STB Controller Selection Guide

	SD3402
Frequency	779956 MHz
Program Memory	64 KB OTP
SRAM	16 KB
NVRAM	64 B
GPIO	23
Keyboard Scan	88 keys
UARTs	1
SPI Ports	1
USB	•
AES Security	•
IR Transmitter	•
Data Rate	100 kbps

International Sales Distributors

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