

XWS150D-S

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Architecture

XWS150D-S Wireless Door/Window Sensor, a device uses a magnetic field to enable you to monitor the opening or closing of a door, window, cabinet, or whatever else needs to be checked for movement.

The hardware architecture is shown in Figure 1.

- 1 The unit built-in two reed switches, detects the magnetic field of the magnetic contact. When a change in status is detected with an opening or closing of a monitored door or window, it transmits this event to CC1110 for processing.
- 2 The CC1110 is a low cost true single UHF transceiver designed for very low power wireless applications. The RF transceiver is integrated with a highly configurable basedband modem. The modem supports various modulation formats and has a configurable data rate up to 500 kbps.
- 3 The CC1110 deal with kinds of operation, including scanning the discovery switch to initialize communication, monitoring the battery voltage, detecting contact event, flashing the LED to indicate the unit status, and so on.
- 4 This unit using two AAA alkaline batteries for power supply.