

A quick switch to a smart home.

Table of comparison: The Switchbee solution vs others - Pro's and Con's

Benefits	Switchbee	Z-Wave & Zigbee	Conclusion
Ease of Installation Type of Home Wiring systems No neutral wiring needed Work in Electrical board Qualified Installers	2 minutes to replace switch New homes & Old homes Works with all types of wiring No Neutral wire needed Do not open electrical board Can offer installed at fixed price	Unknown installation time Easy for new homes, old not Works with 3 wire systems Need to add a neutral wire Need to add wiring to board DIY install can be unsuccessful	Switchbee offers fixed installation price. Switchbee fits all homes, new & old. Switchbee works with 2 wires or 3 wires. Switchbee is Plug & Play, no neutral wire Switchbee is much easier to install. We prefer to work with installers.
Multifunctional Switches	Each Switchbee smartswitch functions as ON/OFF, dimmer, 2 way switch, scenario switch, logic switch & current sensor.	Select what you need from a wide variety of switches. Each has only one function.	Switchbee switches are software configurable, changing the switch from being On/Off to dimming is easily done.
Configurable	Installer carries one item. Installer configures in house.	Installers need multiple items Carry many different types.	Switchbee switches allow for less stock. Switch functions can be changed easily.
Transmission Protocols Frequencies Quoted Range Real Range Repeaters Connectivity	Switchbee Propriety 433 Mhz (80m-500m) Line of Sight Can penetrate concrete-100m Repeaters used very rarely Good signal even in concrete	Various Zigbee types, Zwave Zigbee-2.4Ghz, Zwave 908Mhz (10m-100m) Line of Sight Needs repeater every 10-30m Repeaters often needed Low signal problems	Unknown protocol could be safer. Lower frequency=longer range. Switchbee designed to always work. Switchbee works without repeaters Switchbee works even through 3 floors. Switchbee has connectivity in all rooms.
System Operation Transmission Potential for Hacking Ability to Jam signal Network type Switch Failure	System is always OFF Only occurs on pressing switch Difficult to hack-always OFF Always OFF & very short burst Star Network Failure only affects switch	System is always ON Always transmitting (Mesh) System is always ON-can hack System is always ON : 24/7 Mesh System Failure could affect system	Switchbee=much lower radiation levels. Switchbee uses less power & safer. Switchbee systems are safer & quieter. Switchbee systems offer lower risk. Switchbee works point to point. Switchbee is more rugged.
Switching system	ZCT-Zero cross technology	Unknown/Various	Switchbee increases end device life.
Compatability	Can add Z-wave dongle. Can work with other apps. API to be available soon.	Zwave compatible with Zwave Many types of Zigbee are not always compatible with itself.	Switchbee compatability with other devices can be added on request. Request should be customer driven.

SUMMARY OF SWITCHBEE vs ZIGBEE and Z-WAVE TECHNOLOGY

Technology	Installation	Configurable	Range (Average)*	Transmission	Applications
Switchbee	No Neutral Wire	Multiuse Switches	80m in concrete	Always Off	Home Automation, remote, alarm
Zigbee	Requires rewiring	Single use switches	5m-10m in concrete	Always On	Home Automation, grid, remote
Z-Wave	Requires rewiring	Single use switches	10m-25m in concrete	Always On	Automation, security, remote
WI-FI	Requires rewiring	Single use switches	5m-15m in concrete	Always On	Many uses, Automation, camera

* This estimate is based on typical installations where weak signals start effecting the system.