# Super Switch   2GIG-TAKE-345

2gig

Operating Instructions

The 2GIG-TAKE-345 Super Switch is 2GIG's wireless takeover module. This unit was designed to convert 8 hardwired zones into eight wireless zones, make installation simple, and work with existing 12-volt control panels. The module is to be mounted next to the existing control box where the hardwired zones are connected. All of the zones on the Super Switch act as supervised wireless zones.
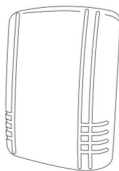
NOTE: **If the control panel has been removed then a 12-volt power supply with battery backup is required (not supplied).**

Installation & Mounting Guidelines

Screw the mounting bracket to a wall and attach the Super Switch. To release the bracket, pull up on the tab and slide the bracket down. Mount the bracket with two screws. The Super Switch must be mounted in RF range of the control panel being installed.

NOTE: Signals will not be received if the Super Switch is not within range of the control panel.

Follow the wiring diagram provided

1. Remove AC power from existing wired panel.
2. Remove leads from battery on existing wired panel.
3. With power removed, wire the zones to the Super Switch. Terminals 3-10 are marked as Zones 1-8 on the Super Switch (see *Figure 3*) and are where the zones are connected. For example, to wire zone 1 on the Super Switch take the positive or HI side of the zone off the existing panel and place it in terminal 3/Zone 1 on the Super Switch. Leave the negative side or the LO side of the zone wired to the existing panel.
4. Repeat this procedure for all zones to be connected to the Super Switch.
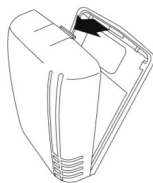

Figure 1

Powering the Super Switch and other devices

1. The Super Switch comes with two wires attached Red (+) and Black (-). Connect the red wire to the red terminal and the black wire to the black terminal on the existing control panel's battery.
2. Connect the wires from the existing panel for the battery into the spades lugs on top of the wires from Super Switch now connected to the battery.
3. Wire the existing panels AUX power out to terminal 2 on the Super Switch (marked as 12V). If you are using the Super Switch with PIRs, glass breaks, or other devices that need power, then they need to receive power from the AUX power on the existing control panel. **NOTE: Remove all other devices wired to AUX power on the existing control such as keypads or any other devices.**
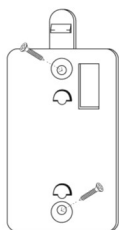
Important

1. All the zones on the Super Switch are "Normally Closed" zones.
2. The maximum loop resistance cannot exceed 3K ohms (If the loop resistance exceeds 3K ohms and the existing panel used end of line resistance, then the end of line resistor may be removed).
3. Different control panels have different terminals for each zone and aux power. Please refer to wiring diagram that came with the existing panel. For example, the HI side of Zone 1—Zone 8 on a Vista panel is typically terminals 8,11,12,14,15,17,18, and 20. AUX positive is typically terminal 5 on a Vista panel.

NOTE: The Super Switch cannot be used to monitor any type of fire or CO detection zone.

Figure 2

Monitoring the Battery

The Super Switch will operate on the connected battery if there is an AC failure, unless the battery is not capable of supplying enough power. The Super Switch will monitor the battery to make sure it is operational. When the Super Switch detects a battery voltage below normal level for a period of time, the Super Switch will report a low battery for each zone.

Programming

See control panel instructions for learning in sensors. Make sure the control panel is in learn mode and follow steps below.

1. The Super Switch has a button attached to the board (see *Figure 3*). When this button is pushed, a red LED will light up for approximately 8 seconds, indicating that the Super Switch is in learn mode.
2. Once the Super Switch is in learn mode, open and close the zone being learned in.

NOTE: The best way to do this is by pushing the Learn button. After the LED lights up, remove the wire for the zone being learned in and then place the wire back into the terminal on the Super Switch (When using this method, all doors and motions connected to this loop must be closed prior to removing and inserting the wire). Repeat for each zone as necessary. Once all the zones are learned in, the Super Switch will be operational.

Specifications

Wireless Signal Range	700 ft., open air
Code Outputs	For each of the 8 serialized zones: Fault; Restore; Tamper ("Learn" mode); Low Battery
Transmitter Frequency	345.000 MHz (crystal controlled)
Transmitter Frequency Tolerance	± 15 kHz
Transmitter Bandwidth	24 kHz
Modulation Type	Amplitude Shift Keying—On/Off Keying (ASK-OOK)
Unique ID Codes	Over one (1) million different code combinations
Supervisory Interval	70 minutes
Peak Field Strength	Typical 50,000 uV/m at 3m
Dimensions (LxWxH)	3.54 x 2.56 x 1.13 in. (9.0 x 6.5 x 2.9 cm)
Weight (including bracket)	2.85 oz. (80.8 g)
Housing Material	ABS plastic
Color	White
Operating Temperature	32° to 120°F (0° to 49°C)
Relative Humidity	5-95% Non-Condensing
Operating Voltage	9-16 volts DC, 50mA
Regulatory Listing(s)	ETL, FCC Part 15, Industry Canada
Warranty*	Two (2) years
Included Accessories	Mounting plate, two (2) Phillip's head screws, two (2) plastic drywall screws

FCC COMPLIANCE STATEMENT*

This device complies with FCC Rules and Regulations as Part 15 devices, as well as Industry Canada Rules and Regulations. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.
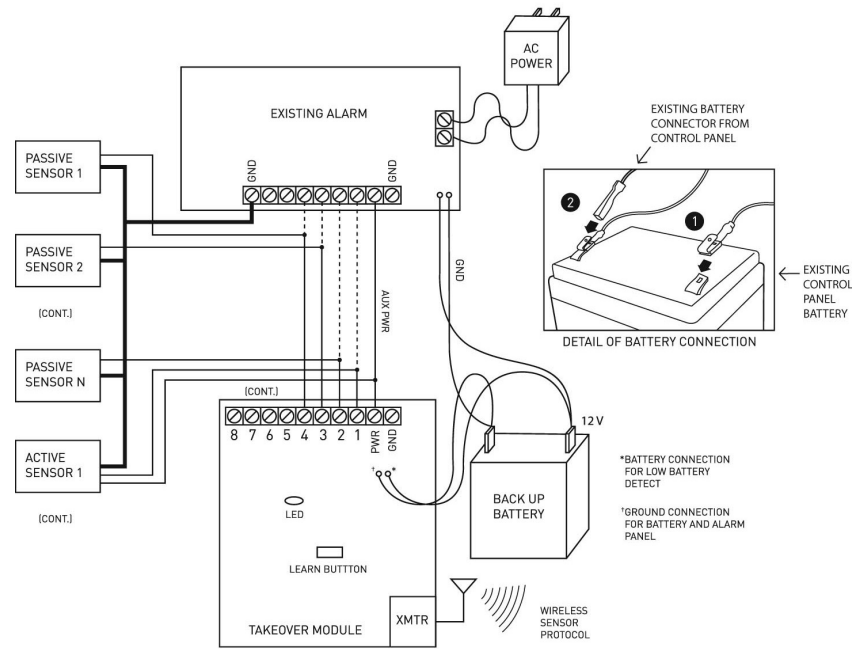
Note: Changes or modifications to the device may void FCC compliance.

FCC ID: WDQ-TAK1345
Industry Canada ID: 7794A-TAK1345

*For more warranty and compliance information, visit our website (www.2gig.com).

Figure 3

SUPERSWITCH

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