

**I N S T A L L A T I O N   G U I D E**



**MDSG150  
Security Generic Module w/ Cover  
& MDSG100  
Security Generic Module**

---

**12382 South Gateway Park Place, 700, Draper, Utah 84020  
1.801.617.3100  
[www.futuresmart.com](http://www.futuresmart.com)**

## Description

The MDSG150/MDSG100 is designed to allow installation of a number of manufacturers security pc boards into a FutureSmart rough-in can (QN18,QN24,QN36,QN48).

## Features

### Compatible Security Systems:

- Ademco Vista 10, 15P, 20
- First Alert 130, 148CP, 168CPX
- Caddx NX8
- DSC 832, 1555
- DSC Expanders
- Electronics Line 3208GLD
- E.L. Relay/Zone Expanders
- E.L. Wireless Zone Expander

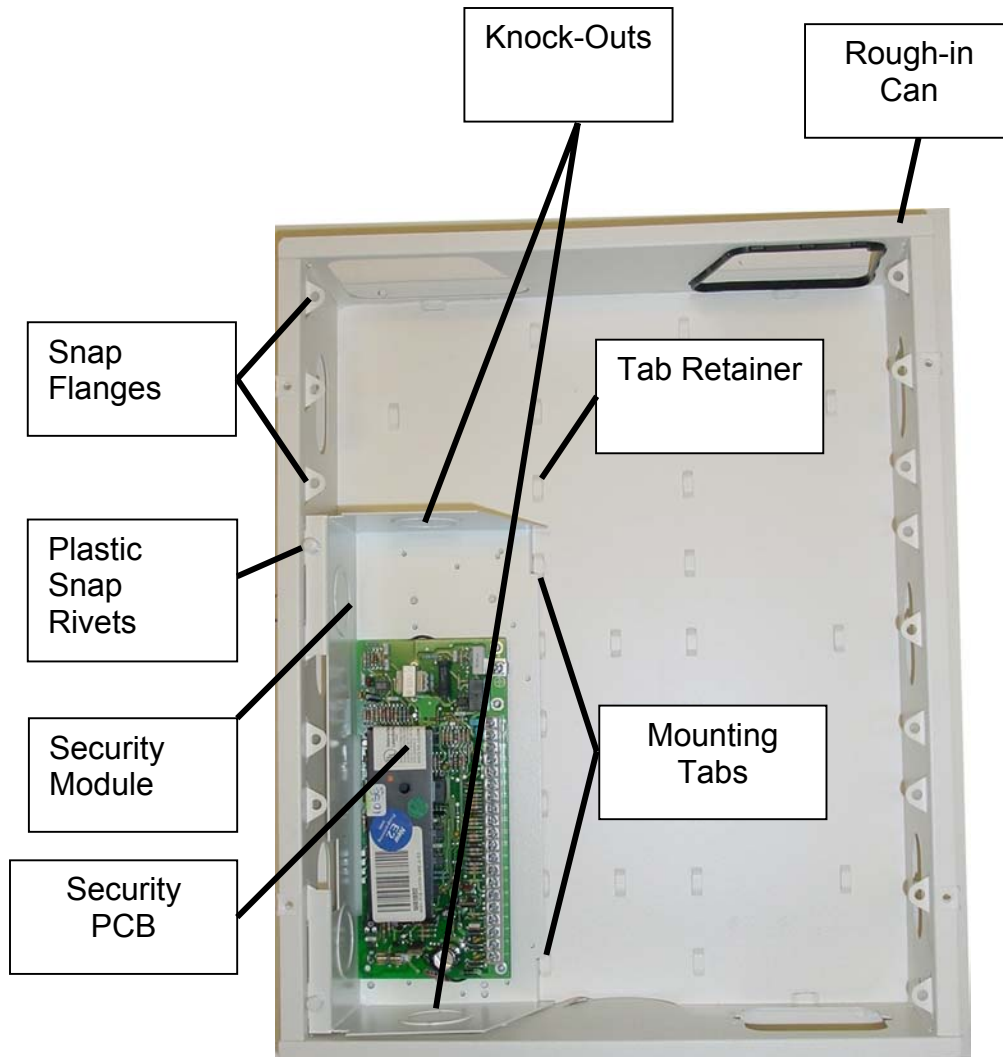
## Parts

### MDSG100

- Security Module
- 4 ¼" 4/40 Standoffs
- 4 ½" 4/40 Screws
- 1 Plastic PCB Rail

### MDSG150

- Security Module
- Locking Module Cover
- 4 ¼" 4/40 Standoffs
- 4 ½" 4/40 Screws
- 1 Plastic PCB Rail

**Fig#1**

### Installation of Security PCB

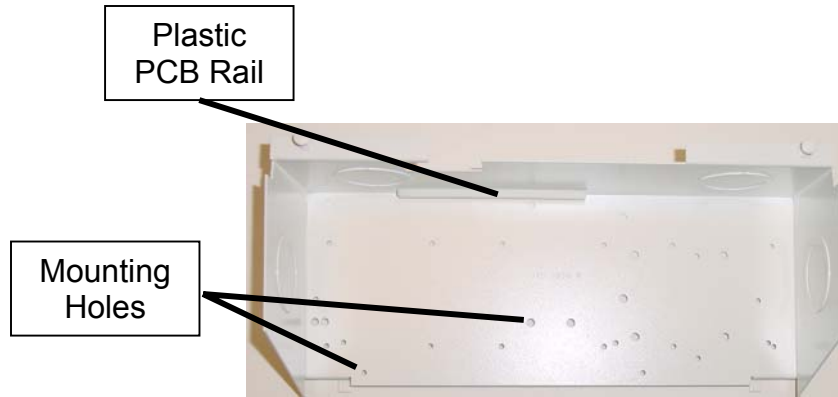
The first step is to determine what mounting holes (Fig#2) you will need to use to mount your board. Some security PC boards are mounted to the module using 4 standoffs (included with the module). Other boards use the plastic PCB rail (included with the module), shown in Fig#2, that is installed into the two oblong holes at the back of the module. The rail supports the back side of the PC board while the front is held up by two metal standoffs. If the back of the PC board seats all the way into the rail with out the boards components interfering, then try rail mounting the board first.

**Mounting Boards with four standoffs ( Rail not used)**

Place the security module on a work area with the mounting tabs down and facing you. Put the security PC Board with component side up and terminal side facing you, into the metal as shown (Fig#3).

Position your head above the

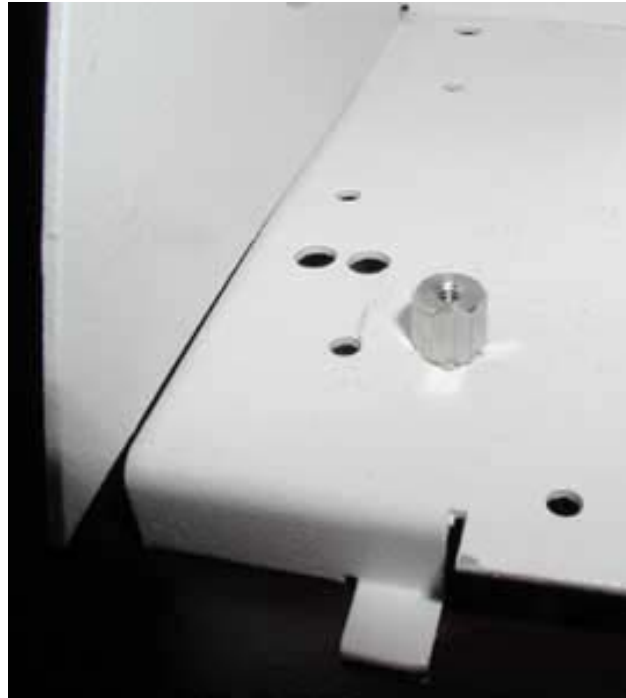
front edge of the board over one of the front two PCB mounting holes. As you slide the board back and forth on the metal surface of the module, Keeping the back edge of the board parallel with the back of the module, look through each of the two front PCB mounting holes. When you find that the front two mounting holes align with corresponding holes in the metal module check to see if the back PCB holes also align to holes in the metal. If not, continue to move the board back and forth bringing it  $\frac{1}{4}$ " closer to you with each pass until you locate the holes that line up. Carefully mark each of the holes with pen so you can identify them once the PCB is removed. Remove the PC board and install standoffs into the holes you marked so that the hex portion is on the top/board side of the module (Fig#4). Secure the hex standoffs to the metal using the supplied nuts. You may now place the board back on to the metal module while carefully aligning the PCB mounting holes over each of the standoffs. Secure the board to each standoff using the provided screws to lock the board in place.

**Fig#2****Fig#3**

### Mounting Boards with Rail

Snap the plastic PCB rail in to the module by pushing the plastic posts on the back of the rail through each of the two oblong holes in the back of the module (PC Board side). Put the PC Board with component side up and terminal side facing you, into the metal as shown (Fig#3). Put your head above the front edge of the board over one of the two front PCB mounting holes. As you slide the board back and forth along the rail, Keep the back edge of the board seated in the rail and look through each of the front two PCB mounting holes. When you find that the front two mounting holes align with corresponding holes in the metal module, carefully mark each of the holes with a

pen so you can identify them once the PCB is removed. Remove the board and install standoffs into the holes you marked so that the hex portion is on the top/board side of the module (Fig#4). Secure the hex standoffs to the metal using the supplied nuts. You can use the plastic standoffs if the holes you marked are the larger diameter holes. You may now place the board back on to the metal module while carefully inserting the back edge of the board into the PCB rail. Align the two front PCB mounting holes over the standoffs that you installed and either secure using the provided screws (Fig#5).



Fig#4



Fig#5

Note: To remove the plastic rail from the metal, push the plastic post out from the back side using a screw driver.

### Module and Battery Placement

Because the space in your QuickNetwork Can is limited you will need to carefully plan the placement of your modules. Plan to use three six inch module bays all in a row for mounting the MDSG150/MDSG100 The battery needs to be placed in the QuickNetwork can over the spare receptacle mounting hole at the bottom of the can (Fig#6).

**Module Installation**

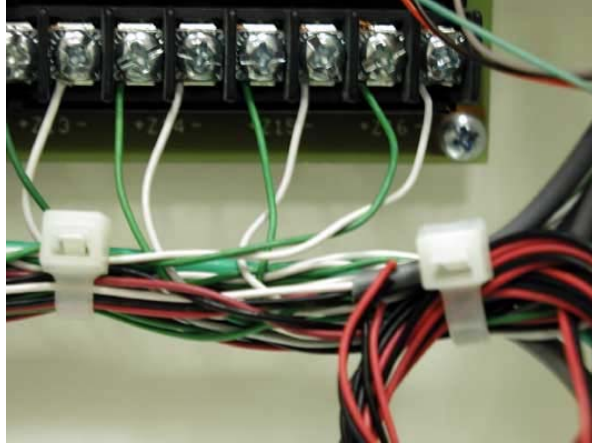
The module should be installed directly above the battery with the battery leads from your security PC board exiting the module through the bottom knock-out (Fig#6). Stage the module for installation by first engaging the two plastic snap rivets (by pushing them in). You can now install the module by inserting the module tabs under the tab retainers in the QuickNetwork install can. Align the plastic snap rivets over the holes in the two corresponding snap flanges. With the module held in place so that the snap rivets are pushing into the holes, pull out on the head of each plastic snap rivet so that the rivets engage into the metal snap flanges as you push the module in. Once the module is fully seated the snap rivets will easily push in (or snap) to hold the module in place.



Fig#6

**Wire management**

Bring all wires into the module through one or both knock-outs on either end of the module and use wire ties (Fig#7) to neatly route and connect all wires to their proper terminals (see instructions included with your Security PC Board). You will also need to route the battery leads out of the module through one of the knock-outs. Depending on where you locate your battery you may need to extend the battery leads by using a length of 18Awg



Fig#7

two conductor wire with insulated male spade connectors on one end and insulated female spade connectors on the other to plug onto your battery terminals.

**Cover Installation**

Make sure that all wires are neatly tie-wrapped and out of the way so they will not get pinched between the cover and the module. Disengage the lock by inserting the key and turning it counter clock-wise  $\frac{1}{4}$  turn. Stage the cover for installation by first engaging the two plastic snap rivets (by pushing them in). You can now install the module by inserting the module tabs under the tab retainers in the QuickNetwork install can. Align the plastic snap rivets over the holes in the two corresponding snap flanges. With the cover held in place so that the snap rivets are pushing into the holes, pull out on the head of each plastic snap rivet so that the rivets engage into the metal snap flanges as you push the cover in. Insert the key and turn  $\frac{1}{4}$  turn clock-wise to lock the cover.

Note: If the lock doesn't keep the cover from being removed while locked then you have a cover that we shipped with the wrong hasp. Please contact the location you purchase the module from and ask for a replacement hasp. The replacement hasp is stamped on the back with an "A".