

Suttle's SOHO Access Enclosures (SAE) are the simple and cost-effective way to install and manage multimedia networks in your small office and home. The SAE provides a central location for SOHO Access Modules (SAMs) used to distribute all of your home and small office technologies. The modular design of the SAE offers a scalable solution to meet all of your current and future needs for; multi-line telephones, fax, office networking, internet, DSL and cable modems, security cameras, cable and satellite video distribution, and more. See Burglar-Alarm and Fire Warning Systems section for additional requirements when installing Household Fire Warning Systems and/or Household Burglar-Alarm Systems.

Go to <http://www.suttlesoho.com> to see our full line of SOHO Access Enclosures, Modules, & Accessories.

DESCRIPTIONS

SOHO ACCESS ENCLOSURES SAE-xx

Available in four sizes 14", 21", 28", and 42". SAEs may be flush mounted between standard 16" studs or surface mounted. Alignment tabs on each side of the SAE set the correct flush mount depth. Flexible stud mount tabs ensure trouble free installation even if wall studs are over spaced. The 14" SAE supports the installation of a single gang electrical outlet box while the 21", 28", and 42" SAEs support two. Knockout cable holes provide a multitude of cable entry options to best suit any wiring plan. Rubber hole grommets are supplied to prevent cable damage during cable rough in. Each enclosure also includes; re-usable cable ties, a wiring diagram, ground lug, and mounting hardware. All SAEs have a durable white powder coat finish. Three cover styles and an optional 2" depth extender are available.

SOHO ACCESS PANEL COVER SAPC-xx

A single piece steel cover with beveled edges to conceal the rough opening when flush mounted. These covers have a white powder coat finish and a sleeve to store this owner's manual and any other instructions provided with the SAMs.

SOHO ACCESS DOOR COVER SADC-xx

A door and frame assembly with an auto-catch slide latch and beveled edges to conceal the rough opening when flush mounted. These covers are also finished with white powder coat paint and a document storage sleeve as well as a knockout for installation of a key lock (SAE-LOCK) that may be purchased separately.

SOHO ACCESS DUAL DOOR COVER SADD-xxxx

The dual door covers are designed to secure the top portion of the enclosure while allowing the bottom portion to be accessed freely. These covers have similar construction and finishing as the standard door covers. These covers are only available in 42" models with 14"/28" or 21"/21" door sections. Dual Door Covers require a SAM-EPM to separate top and bottom sections of the enclosure.

SOHO ACCESS SURFACE MOUNT PANEL COVER SMP-xx

A slim panel cover, with no over hang, for surface mount installations and added depth for wiring flexibility. These covers have a white powder coat finish and a sleeve to store this owner's manual and any other instructions provided with the SAMs.

Go to <http://www.suttlesoho.com> to see our full line of SOHO Access Enclosures and Covers.

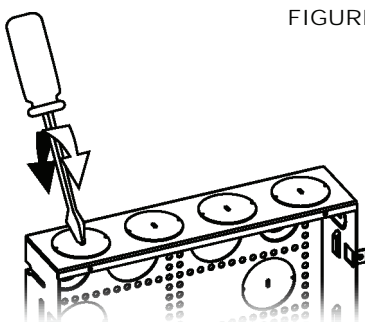


FIGURE 1

WIRING PLAN

When installing cables in your small office or home use the 'home run' wiring scheme, in which cables are run from each room directly to the SAE. Select a central location to mount the SAE keeping the cable lengths as balanced as possible. The location of the SAE should provide easy access for service and component upgrades. Review the requirements of SAMs to be used to determine the number of power outlets needed. It is strongly recommended that a 110 VAC outlet be installed even if there is not a current need, especially in flush mount applications.

For communications wiring, such as telephone and data, use CAT5e/6, 4-UTP (4 Unshielded Twisted Pairs). Use RG-6 coax cable for entertainment connections, such as: antenna or cable television, satellite dish, cable modem, or AV modulators. (AV modulators distribute video from a VCR, satellite receiver, DVD player, or security cameras onto new TV channels.) The following tables show the recommended cable runs from the SAE to each room.

GOOD

Room Type	# of CAT5e/6 cables	# of RG-6 cables	Supported equipment
Typical room	1	1	Phone, TV
Media center	1	3	Phone, satellite receiver, AV modulators
Home office	1	2	Phone, TV, cable modem

BETTER

Room Type	# of CAT5e/6 cables	# of RG-6 cables	Supported equipment
Typical room	2	1	Phone, TV, Ethernet
Media center	2	3	Phone, TV, Ethernet, satellite receiver, AV modulators
Home office	2	2	Phone, TV, Ethernet, cable modem

BEST

Room Type	# of CAT5e/6 cables	# of RG-6 cables	Supported equipment
Typical room	2	2	Phone, TV, Ethernet, satellite receiver
Media center	3	3	Phone, TV, Ethernet, satellite receiver, AV modulators, hi-speed data
Home office	3	3	Phone, TV, Ethernet, satellite receiver, cable modem, hi-speed data

NOTE: Run two RG-6 cables from the SAE to the planned location of dish antennas.

NOTE: Running a second CAT5e/6 cable from the telephone network interface (NID) to the SAE is recommended for future service applications.

CAUTION: Local electrical and building codes may limit available mounting locations. Review all applicable codes and requirements before mounting the SAE.

NOTE: The SAE is not weather proof and should not be located outside, or where temperature changes and humidity may allow condensation in the enclosure.

MOUNTING

Remove and save the cardboard paint shield from the enclosure, this will be replaced to protect installed cables after rough in. Remove cable entry knock-outs as required for your wiring plan (Figure 1) and insert the rubber hole grommets, routing cables through the top of the box whenever possible. Approximately 30 RG-6 cables or 50 CAT5e/6 cables will fit through each entry hole, however, keep in mind that labeling and termination will be simpler with lower densities. Be sure to allow room above and below the SAE for cable routing and 110 outlets.

FLUSH MOUNT

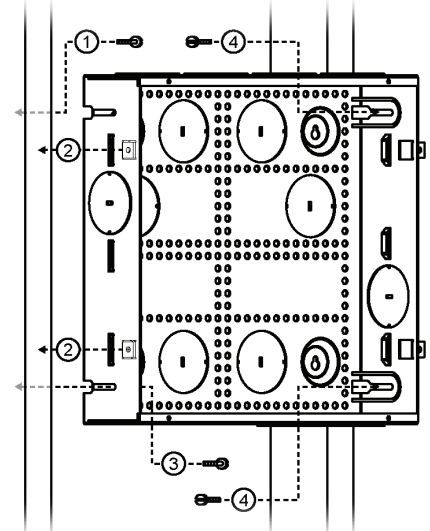
1. Drive a mounting screw into the center of the wall stud, to the left of the SAE, approximately 4" below the desired top of the enclosure. Do not fully tighten screw.
2. Slide the SAE onto the screw and tighten screw to secure the enclosure. (Use flush mount tabs against the face of the wall stud to set the depth.)
3. Install the bottom left side screw. (Be sure the flush mount tabs are against wall stud as noted above.)
4. Insert right side mounting screws using flush mount tabs to set the depth. The flexible mounting features will ensure a solid installation without deforming the enclosure.

CAUTION: This product is not design for fire-rated wall installations. Consult your local authority having jurisdiction for recommendations.

SURFACE MOUNT

NOTE: Secure the SAE to the wall stud or plywood backboard using the provided screws. Use the appropriate screw anchors if not mounted to wall stud or backboard.

1. Position the paint shield in the desired location of the enclosure and install provided screw at the mark. Do not fully tighten.
2. Hang the SAE on the installed screw. Level the enclosure and insert the top right mounting screw.
3. Install wood screws in the remaining keyholes and tighten the screw from step 1.



CABLE ROUGH-IN

Be sure to follow all state and local codes as well as good wiring practices such as maintaining minimum bend radius, separation from power, and proper cable retention. Label all cables at both ends using wire marker labels. In addition using different color cables for each application will simplify installation. When routing cables into the SAE be sure to leave excess length for termination and cable management.

NOTE: Excess cable length at the SAE should be equal to the length of the enclosure plus 1 foot.

NOTE: Run two RG-6 cables from the SAE to the planned location of dish antennas.

NOTE: Running a second CAT5e/6 cable from the telephone network interface (NID) to the SAE is recommended for future service applications.

1. Run cables from service provider's NID to the SAE.
2. Install cables from stationary hardware such as television antennas, satellite dishes, and security cameras.
3. Install cables from the SAE to all outlet locations.
4. Bundle and secure the excess cable within the enclosure.
5. Install the paint shield and seal with masking tape to protect enclosure and cables during construction and painting.

COVER INSTALLATION

Attach cover or door assembly to the SAE using the screws provided with the cover. If you are installing the cover without someone's assistance, insert nails into the top screw holes on the cover. Guide the nails into the screw holes of the SAE holding the cover in place while you insert the bottom two screws.

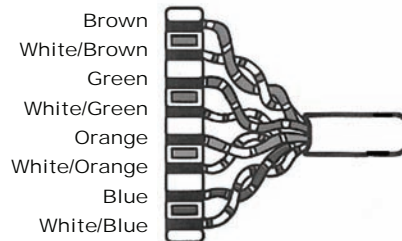
MODULE INSTALLATION

All SAMs are secured to the enclosure using plunger and grommet latches. The universal hole pattern in the SAE provides many configuration options. To determine the best configuration for your installation, arrange all of the modules you plan to use in the enclosure. Visualizing cable routes, connections between modules, and power wires, move and re-orient the modules to provide adequate room for termination and maintenance. Verify that all connections can be made without kinking, stretching, or violating minimum bend radius requirements.

1. Push module latches into the mounting holes in desired location making sure that all latch plungers are pulled out in the unlatched position.
2. Depress latch plungers to secure the module in selected position.
3. Make the required module connections as described by the module's instructions.

110 IDC TERMINATION PROCEDURE

Place wires into proper slots according to selected configuration. Starting at the blue-position on the 4-pair IDC, begin with the white wire of each pair as you progress to the brown-position on the IDC as shown below. Press wires into slots with punch tool. Trim excess wire with diagonal cutter.



ELECTRICAL ROUGH-IN

A qualified electrician should install all AC outlets in compliance with the NEC.

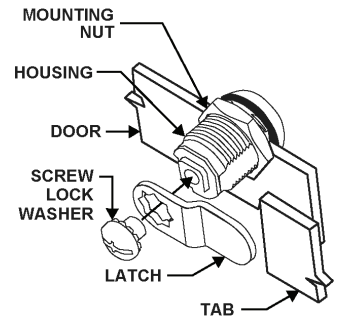
1. Remove the electrical outlet knockout at the bottom of the SAE.
2. Insert electrical outlet box from inside the enclosure, attach with sheet metal screws.
3. Route and secure nonmetallic power cable to the electrical outlet box.
4. Install receptacle and mount the cover plate.

Proper grounding of the SAE should be verified by a qualified electrician and comply with the National Electric Code (NEC). Connect appropriate ground wire to the SAE from the house electrical ground.

DOOR LOCK INSTALLATION

SAE-xxDC door assemblies will accept a key lock (SAE-LOCK) that may be purchased separately.

1. Remove door lock knockout from the door panel with a hammer and punch. Close door and strike from the outside.
2. Insert lock assembly orienting the latch towards the tab on the frame.
3. Secure lock assembly to the door panel with provided mounting nut.



BURGLAR-ALARM & FIRE WARNING SYSTEMS

Suttle's SOHO Access Enclosures may be configured to accommodate Household Burglar-Alarm Systems and Household Fire Warning Systems in accordance with UL985 and UL1023. The following installation requirements must be met for the SAE to comply with UL standards. Follow all instructions provided with the Household Burglar-Alarm System modules and Household Fire Warning System modules.

COMPLIANT ENCLOSURES

Enclosures with covers:
[SAE-xxDC, SAE-xxPC, SAE-xxSP, SAE-xxDDC-xxxx]
Enclosures:
[SAE-xx]
Covers:
[SADC-xx, SAPC-xx, SMP-xx, SADD-xxxx]

NOTE: Door covers must be installed with a door lock for compliance to UL985 & UL1023. Door locks (SAE-LOCK) are sold separately, go to <http://www.suttlesoho.com> to see our full line of SOHO Access Modules and accessories.

POWER-LIMITED CIRCUITS

Follow the UL Wiring Diagram provided with the Household Burglar-Alarm System modules and Household Fire Warning System module for required wire spacing and routing. Maintain a minimum of 1/4" space between Power-Limited and Non-Power-Limited wiring.

NOTE: Refer to the instructions provided with the Burglar-Alarm and/or Fire Warning module for specific installation instructions.

IMPORTANT INFORMATION

- Read and understand all instructions. Follow all warnings and instructions marked on the product.
- Do not use this product near water, -- e.g., near a bath tub, wash basin, kitchen sink, wet basement, or near a swimming pool.
- Never push objects of any kind into this product through openings, as they may contact dangerous voltages.
- SAVE THESE INSTRUCTIONS.

SAFETY INFORMATION

- Never install communications wiring or components during a lightning storm.
- Never install communications components in wet locations unless the components are designed specifically for use in wet locations.
- Never touch uninsulated wires or terminals unless the wiring has been disconnected at the network interface.