OnSite™ Single LGX® Wall Mounting
Model LGX-1CS
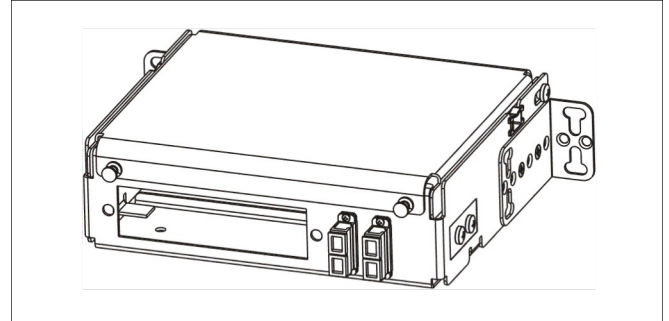
Figure 1. Model LGX-1CS wall mounting

1. OVERVIEW

Enginuity's OnSite™ Model LGX-1CS (Figure 1) is a full-featured wall mounting for an LGX-type module. The LGX-1CS provides a single LGX mounting slot, two duplex fiber SC couplers for service demarcation, and a built-in slack reel to manage excess fiber cable. A hinged cover provides technician access to the slack reel and couplers when opened, and helps to protect network fiber and connections when closed. The LGX-1CS can be installed flat or perpendicular to a wall or backboard.

Document Status

This is the initial release of this technical publication.

Product Features

* Supports a single LGX-type module for mounting to a wall or backboard
* Two duplex SC couplers for service handoff
* Slack take-up reel for network-side fiber
* Latching, hinged cover to protect network fiber
* Carrier-class design and construction
* Simple installation

2. APPLICATIONS

The LGX-1CS wall mounting supports an LGX-type module for use by a service provider at a customer location. The LGX module may provide monitoring, loopback, media conversion, or other functions for one or two circuits on the network side of the service interface. The LGX module is connected between the backhaul network and the duplex SC couplers of the LGX-1CS, which provide the network/customer demarcation.

3. DESCRIPTION

The LGX-1CS is a compact wall mounting constructed of heavy-duty steel. As shown in Figure 2, the face of the mounting provides an opening and fasteners for a single LGX-sized module. Also on the face of the unit, two duplex SC couplers provide front-side connection to customer equipment and rear-side connection to the LGX module.

A slack take-up reel is located beneath a latching hinged cover. Side-mounted brackets are provided for mounting the unit perpendicular to the wall, if desired. The LGX-1CS also includes a magnetic circuit identification strip that attaches to the front or topside of the cover.
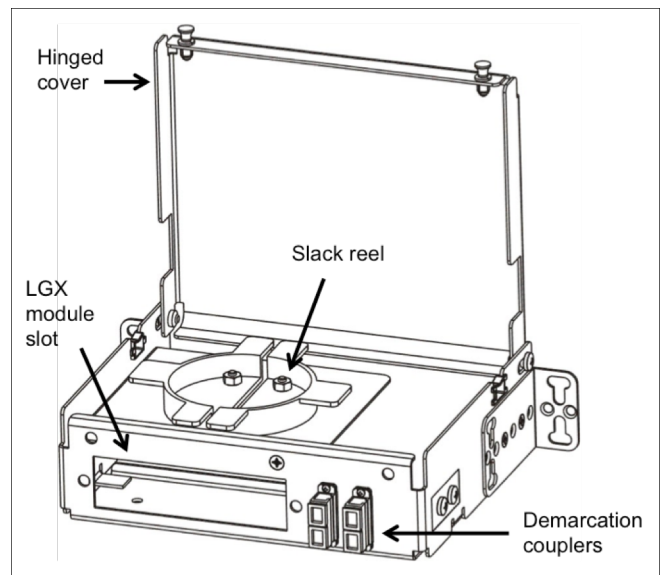
Figure 2. LGX-1CS features

4. INSTALLATION

The LGX-1CS is shipped with four (4) #8 x 3/4" slotted hex-head mounting screws.

A. Mounting Orientation

Select an appropriate location on a wall or backboard to install the assembly. The LGX-1CS can be mounted flat or perpendicular to the vertical surface.
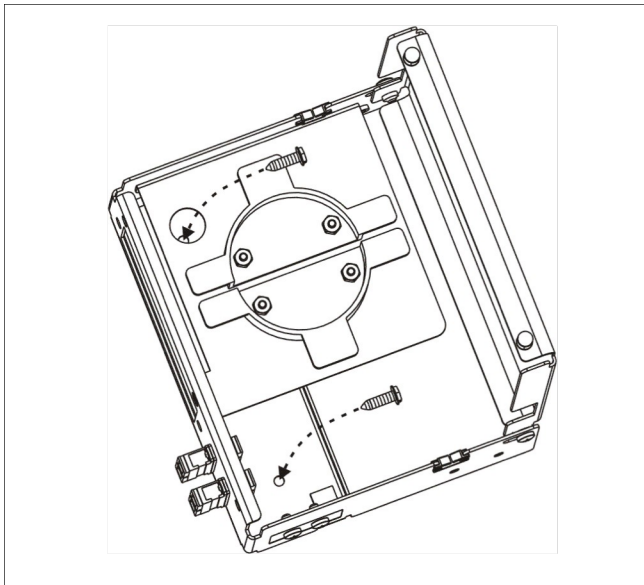
B. Flat Mounting

NOTE: For flat mounting, pre-installed mounting brackets on the side of the LGX-1CS can be removed, if desired.

① Unlatch the cover by pulling the fasteners (located on the front of the cover) slightly forward (Figure 3).
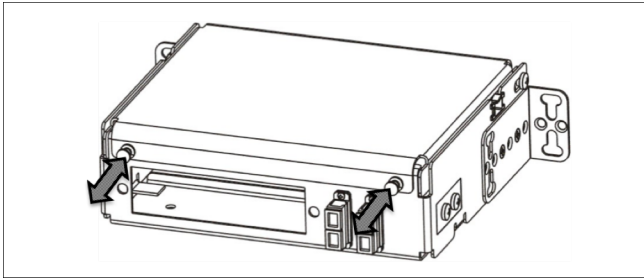
Figure 3. Hinged cover fasteners

② Position the assembly against the wall and fully open the cover, resting the top of the cover against the wall.

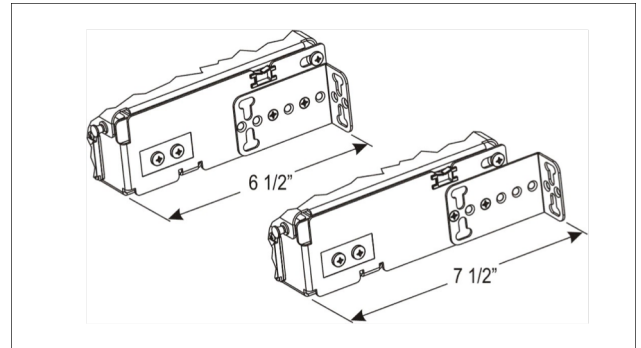③ Mark locations for two of the included screws to be installed as shown in Figure 4.

Figure 4. Screw locations for flat mounting

④ Remove the mounting assembly from the wall and drill pilot holes for each of the marked screw locations.

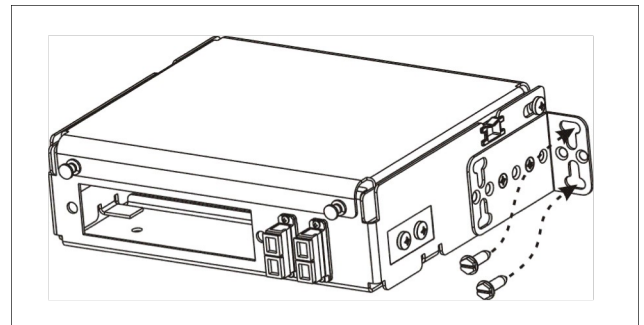⑤ Reposition the assembly on the wall. Install screws into the holes and tighten securely.

C. Perpendicular Mounting

① Adjust the brackets on the sides of the LGX-1CS for the desired distance from the wall, removing and reinstalling the bracket screws as needed (Figure 5).

Figure 5. Adjustable mounting brackets

② Position the assembly against the wall and mark locations for two included screws to be installed into each bracket as shown in Figure 6.

Figure 6. Screw location for perpendicular mounting

③ Remove the mounting assembly from the wall and drill pilot holes for each of the marked screw locations.

④ Reposition the assembly on the wall. Install screws into the holes and tighten securely.

D. Chassis Grounding

① Locate the two (2) pre-installed grounding screws with lock washers on the side of the LGX-1CS. The grounding screws are 10-32 x 3/8" on 5/8" centers.

② Install a dual ground lug (customer provided) with holes on 5/8" centers beneath the included screws and washers. Tighten the screws to fasten the lug to the mounting frame.

③ Connect a ground wire of appropriate gauge to the ground lug, and attach the other end of the wire to a bonded ground point, per local procedures for network equipment.

E. LGX Module Installation

① If the rear of the LGX module being installed includes provisions for attaching a ground wire, locate the green wire that is pre-attached to the LGX-1CS (under the slack reel plate) and feed it through the front of the module slot (Figure 7). Securely screw the spade lug of the ground wire to the LGX module.
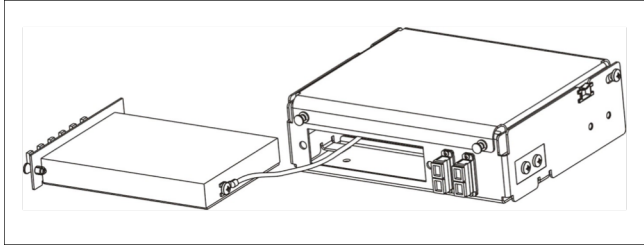
Figure 7. Module ground wire

② Insert the LGX module through the opening on the front of the LGX-1CS (Figure 8).
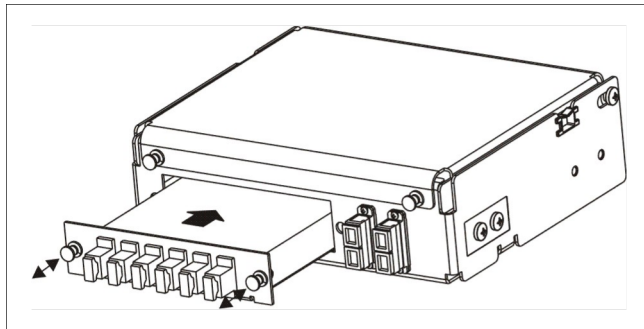

Figure 8. LGX module insertion

③ Slide the module backward and align its push/pull fasteners with the mating holes on the mounting's faceplate.

④ Press in on the fasteners to secure the module in place.

⑤ To remove the module, reverse the above steps.

F. Fiber Cabling

NOTE: Connections and cabling will vary, depending on the type of LGX being used. The installation steps below are described using the example illustrated in Figure 9.

① Connect network cables from a fiber distribution point to the network-side connectors on the front of the LGX module.

② Connect fiber jumpers to the customer-side connectors on the front of the LGX module.

③ Route the jumpers through the side of the LGX-1CS and carefully wind excess cable slack around the mounting's take-up reel.

④ Connect the other end of the fiber jumpers to the rear of the duplex SC couplers on the LGX-1CS.

⑤ Connect fiber cables from the front of the duplex SC couplers to the customer equipment.

⑥ Lower the cover of the mounting and secure it by pressing in on the fasteners.
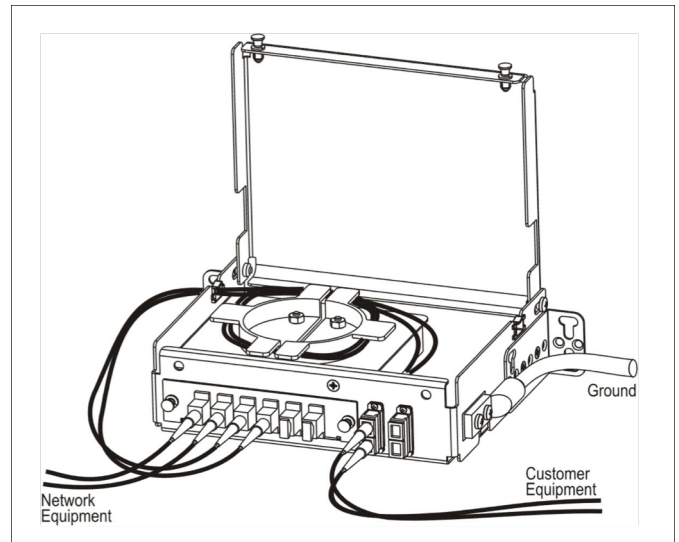
Figure 9. Fully cabled example

5.   TESTING AND TROUBLESHOOTING

The LGX module installed in the mounting should be tested according to the manufacturer's instructions. Transmission tests can also be performed through the duplex SC connectors on the front of the LGX-1CS mounting.

6.   CUSTOMER SERVICE

If technical or customer assistance is required, please contact Enginuity at the following address or phone number:

Enginuity Communications
3545 Stern Avenue
St. Charles, Illinois 60174
Toll Free: 1-800-980-3266
www.enginuitycom.com

7. WARRANTY & REPAIRS

Warranty

Enginuity warrants this product for one (1) year from date of purchase. Any attempt to repair or modify the equipment by anyone other than an authorized Enginuity representative will void the warranty.

This limited warranty does not cover any losses or damages resulting from shipment to or from the customer, or from improper installation, abuse, modifications, or unauthorized repair by other than Enginuity personnel.

Repair and Return

Enginuity equipment will be repaired or replaced without cost during the warranty period if the product is defective for any reason other than abuse, improper use, or improper installation. Before returning defective equipment, first request a Return Material Authorization (RMA) number from Enginuity. Once an RMA number is obtained, return the unit, freight prepaid, along with a brief description of the problem, to:

> Enginuity Communications
> 3545 Stern Avenue
> St. Charles, Illinois 60174
> ATTN: Repair & Return Dept.

Replacements will be shipped in the fastest manner consistent with the urgency of the situation. Repair or replacement of faulty equipment beyond the warranty period is available for a nominal charge. Contact Enginuity for details.

8. SPECIFICATIONS

Part Number	LGX-1CS
Description	OnSite™ Single LGX Mounting
Connectors	Two (2) duplex SC couplers
Height	2.4 inches
Width	10.0 inches, including brackets
Depth	7.3 to 8.3 inches (adjustable)
Weight	2.2 pounds
Operating Temp.	-40°C to +70°C