

UNIVERSAL BUILDING ENCLOSURES (UBE)

Single and Dual Compartment Wall Mount Enclosures

INTRODUCTION

This document provides general specifications and installation guidelines for the PlugIn Optics Universal Building Enclosure (UBE). Available in single compartment and dual compartment configurations, the UBE is a weather tight (IP65) enclosure that can be mounted indoors or outdoors to provide a weather resistant housing for your fiber optic terminations. This LGX-based enclosure can support CWDM & DWDM capacity solutions, a variety of FTTX splitter and tap solutions using splice in or pre-terminated drops and cables. The front compartment can be ordered with 2 or 4 LGX slots that can accommodate both single and dual wide LGX modules and comes equipped with 4 split rubber grommets for cable and drop ingress/egress, and rings for fiber management along the outer perimeter of the compartment. The rear compartment is equipped to support up to 24-fiber, single or mass fusion splicing and fiber management to support up to 15 meters of slack fiber. For additional specifications please refer to the product bulletin or contact us with any questions you may have about the product or its installation.



Single Compartment Enclosures,
PLO-UBE-4LGX-0000-01 (4 LGX Slots) or
PLO-UBE-2LGX-0000-01 (2 LGX Slots)



Dual Compartment Enclosure,
PLO-UBE-4LGX-SPAS-02

KIT CONTENTS

Shipped with each enclosure is an accessories kit that includes:

- One 4mm OR 5/32-Inch security key Allen Wrench.
- Qty-4. Plastic wall anchors and M4, 51.6mm (2-inch) mounting screws.
- Qty-12 fusion splice holders, 47mm
- Qty-4, Tie Wraps, 2mm x 98mm
- Qty-2 Tie Wraps, 2mm x 146mm
- Qty-4, Rubber Split Grommets



WALL OR BACKBOARD INSTALLATION

- There are either 2 or 3 mounting points depending on whether you are installing a single or dual compartment enclosure. For a single compartment installation, there are two mounting tabs located along the back edge of the box, centered along the top and bottom of the enclosure. For dual compartment installation there is one tab, centered along the top and two tabs along the bottom edge.
- Use the empty enclosure to mark the mounting tab holes on the desired mounting surface. Note, removing the lid or front compartment (for dual enclosure mounting) will make marking the mounting holes easier but be sure to account for the needed clearance for the lid and front compartment to open completely while considering enclosure placement.

**WOODEN BACKBOARD INSTALLATION**

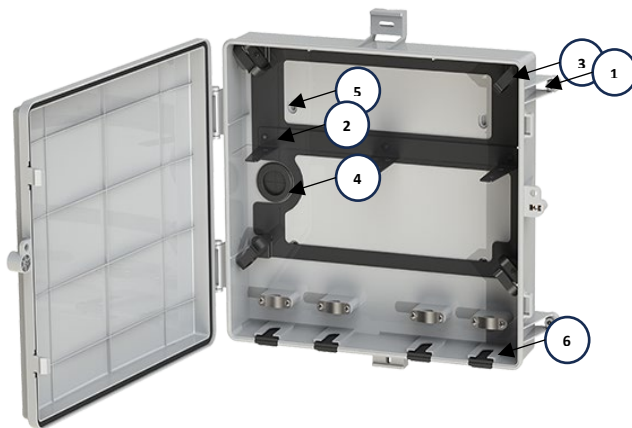
- Once the desired mounting location is identified and the mounting holes are marked, the rear enclosure can be held into place, and the provided screws can be used to affix the UBE into place. Be sure not to overtighten the screws as doing so can break the mounting tabs.
- Once the UBE is mounted to the enclosure and is confirmed to be level, the lid and front compartment (if mounting a dual compartment box) can be reinstalled onto the enclosure.

MASONRY/SHEETROCK WALL INSTALLATION

- For installation onto masonry, sheetrock or any surface where the plastic anchors are needed, the mounting holes will need to be pre-drilled to house the anchors. Drill a hole into the mounting surface for each of the desired mounting locations using a 6mm (1/4-inch) drill bit.
- Once the holes are drilled, insert the plastic wall anchors into each hole. Based on the mounting surface and the precision of the drilled holes, it may be necessary to use a hammer to insert the anchors with a tight fit.
- Once the anchors are installed into the mounting surface, the UBE can be held into place, and the provided screws can be used to affix the enclosure to the mounting surface. Be sure not to overtighten the screws as doing so can damage the plastic anchors or break the mounting tabs.
- Once the rear compartment is mounted to the enclosure and is confirmed to be level, the lid and front compartment (if mounting a dual compartment box) can be reinstalled onto the enclosure.

FEATURES

The UBE is built to use industry standard LGX based, single and double wide, modules, with a maximum depth of 97mm, can be used in the front compartment to host various fiber optics applications. These applications can include bulkhead modules for terminating fiber cables and drops, pigtail modules for connecting fibers spliced into the rear compartment, CWDM & DWDM capacity solutions, FTTx splitters, and taps just to name a few.

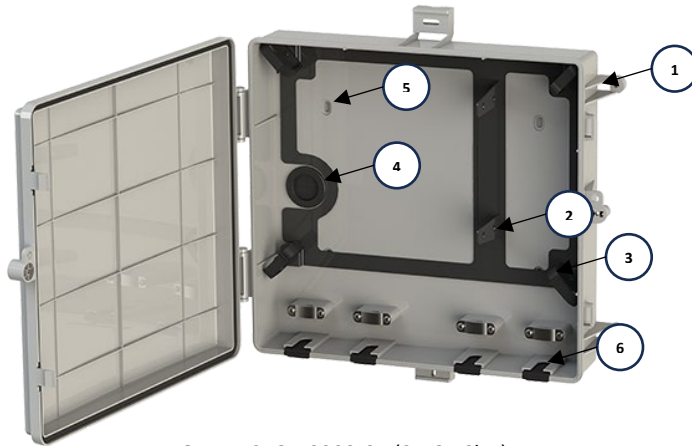


PLO-UBE-4LGX-0000-01 or
PLO-UBE-4LGX-SPAS-02 (Front)

Front/Single Compartment

1. 4mm or 5/32-Inch Hex Head Security Pin Bolt for securing lid and front compartment to rear compartment.
2. 4-Slot LGX mounting bracket to accommodate both single and 2-wide LGX modules.
3. Fiber management rings (x4) for routing fibers or buffer tubes around outer perimeter.
4. Gromet for routing fibers from front compartment out of the rear of the enclosure.
5. Strength member support bracket (x4).
6. Cable and drop ingress/egress grommet (x4).

The 2-slot UBE p/n: PLO-UBE-2LGX-0000-01 can support many fiber optic applications but is designed for LGX based splice modules allowing the splice and cross-connect to be in the same compartment.

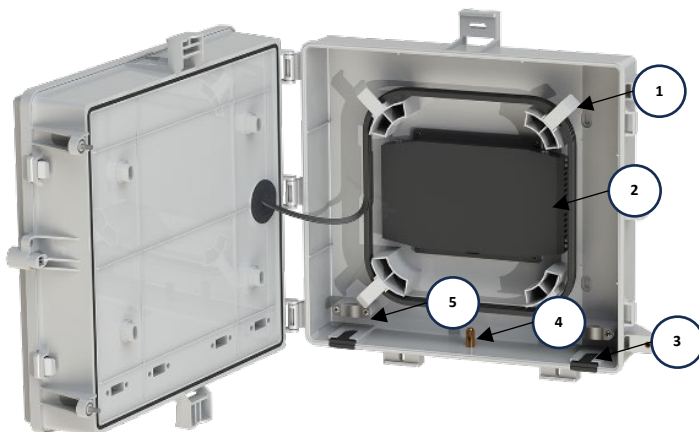


PLO-UBE-2LGX-0000-01 (2-LGX Slot)

Front/Single Compartment

1. 4mm or 5/32-Inch Hex Head Security Pin Bolt for securing lid and front compartment to rear compartment.
2. LGX mounting bracket fits 2 single slot LGX modules facing right.
3. Fiber management rings (x4) for routing fibers or buffer tubes around outer perimeter.
4. Gromet for routing fibers from front compartment out of the rear of the enclosure.
5. Strength member support bracket (x4).
6. Cable and drop ingress/egress grommet (x4).

The rear compartment of the UBE comes equipped with a splice tray capable of housing single and mass fusion splices. The trays are stackable with each tray being able to support 24-fibers. The rear compartment is also equipped with a ground stud for the termination of metallic strength members and armor, as well as fiber management loops built to accommodate up to 15 meters of slack fiber cable (8mm or smaller) and buffer tubing. Care should be taken to not exceed the minimum bend radius of the fiber as it transitions from rear to front compartment.



Rear/Dual Compartment

1. Fiber management tabs (x4) for up to 15 meters of slack storage.
2. Splice tray to house single and mass fusion splices.
3. Cable ingress/egress grommet (x2).
4. Ground stud for termination of metal ground sheath.
5. Strength member support bracket (x2).

SPECIFICATIONS

TECHNICAL SPECIFICATIONS			
DESCRIPTION	UNITS	PLO-UBE-4LGX-SPAS-02	PLO-UBE-4LGX-0000-01 PLO-UBE-2LGX-0000-01
HEIGHT	in (mm)	13.8 (350.52)	13.8 (350.52)
WIDTH	in (mm)	13.6 (345.44)	13.6 (345.44)
DEPTH	in (mm)	5.5 (139.7)	3.4 (86.36)
MATERIAL	--	ABS+PC (UL94 V0)	
IP RATING	--	IP65	
COLOR	--	GRAY	
OPERATING TEMPERATURE	°C	-40 ~ +85	
STORAGE TEMPERATURE	°C	-40 ~ +85	

UBE Enclosures can be ordered empty, as shown above, or as part of a kit. These kits can be configured to ship with a variety of LGX solutions including Bulkhead Faceplate Modules, LGX Pigtail Modules, LGX Splice Modules, Optical Splitters or even DWDM/CWDM Modules based on your application. This installation guide applies to the UBE Enclosures and any completely customizable kits that are available.



PLO-UBE-4LGX-0000-01, 4-Slot
e/w USBM Splitter and Bulkhead
Faceplate Modules



PLO-UBE-4LGX-0000-01, 4-Slot
e/w Pigtail and CWDM Modules



PLO-UBE-2LGX-0000-01, 2-Slot
e/w LGX Splice Module

INSTALLATION SUPPORT

If you encounter issues, please contact us via phone or email. Alternatively, you can use the camera on your smartphone to scan the QR code below to review the latest product specs and applications or submit a contact ticket for support.

Plugin Optics Customer Technical Support
Tel: +1 (561) 612-5703
Email: cx@pluginoptics.com



Install Support