



Installing the Cisco Remote PHY Solution

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Installing the Cisco GS7000 Node

For more information, see the [Cisco 1.2 GHz Super High Output \(SHO\) GS7000 Node Installation and Operation Guide](#).

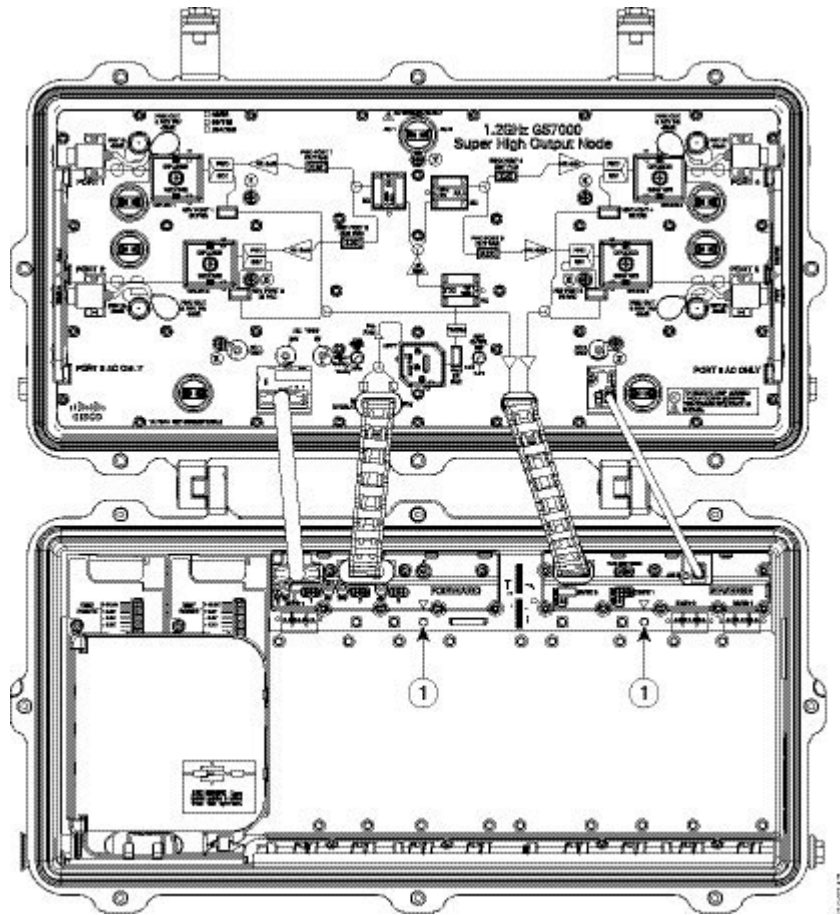
Opening the Cisco GS7000 Node

For more information, see the [Cisco 1.2 GHz Super High Output \(SHO\) GS7000 Node Installation and Operation Guide](#).

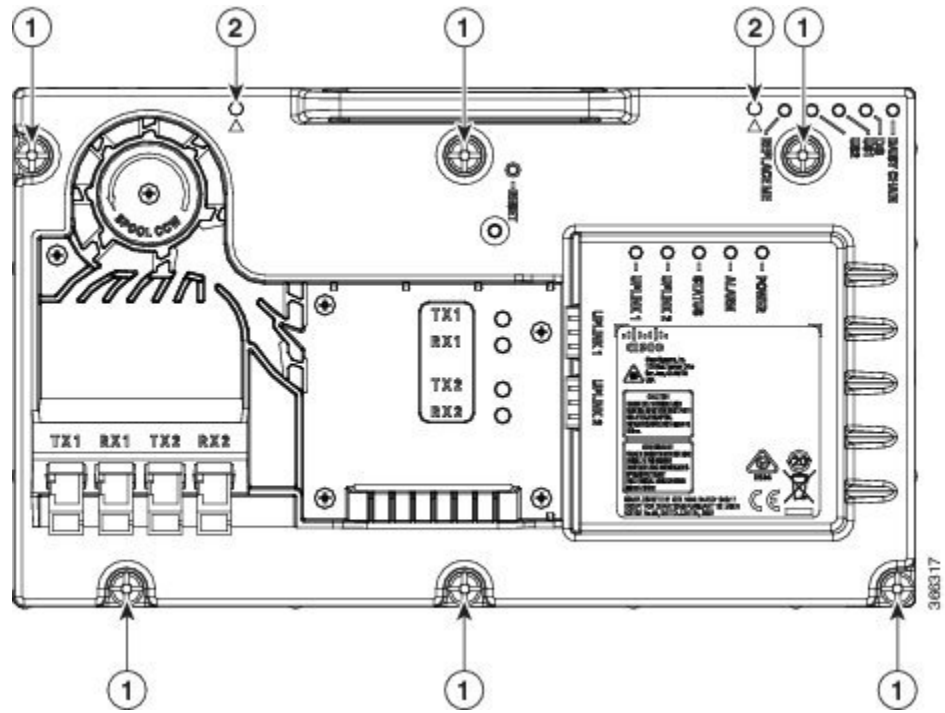
Installing Cisco Remote PHY Device in the Cisco GS7000 Node

Procedure

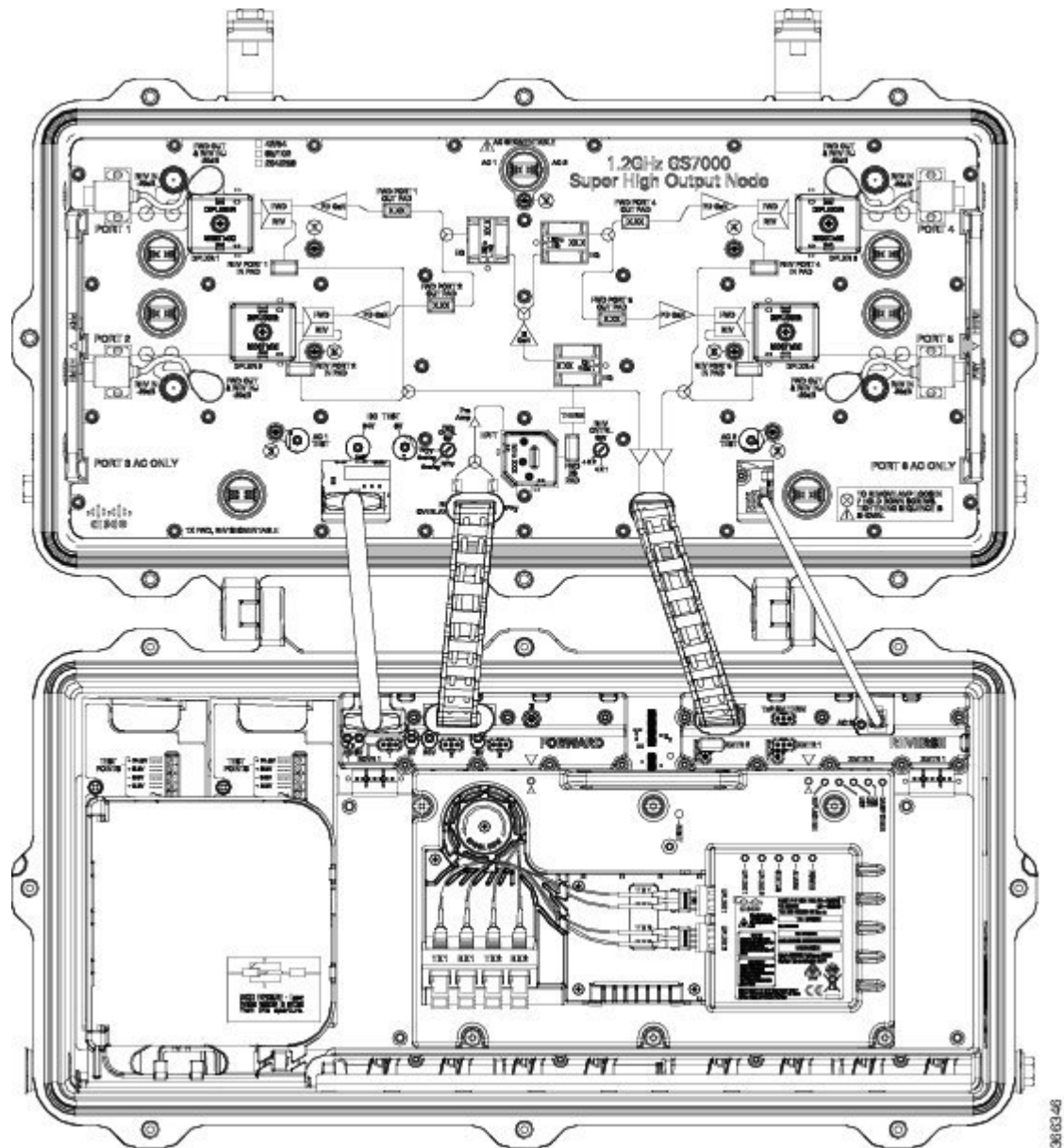
- Step 1** Open the Cisco GS7000 node; remove all the transmitter and receiver modules (if any).
- Step 2** Insert the location pin on the OIB of the Cisco GS7000 node into the location hole on the Cisco RPD. Tighten the screws on the Cisco RPD with recommended torque.



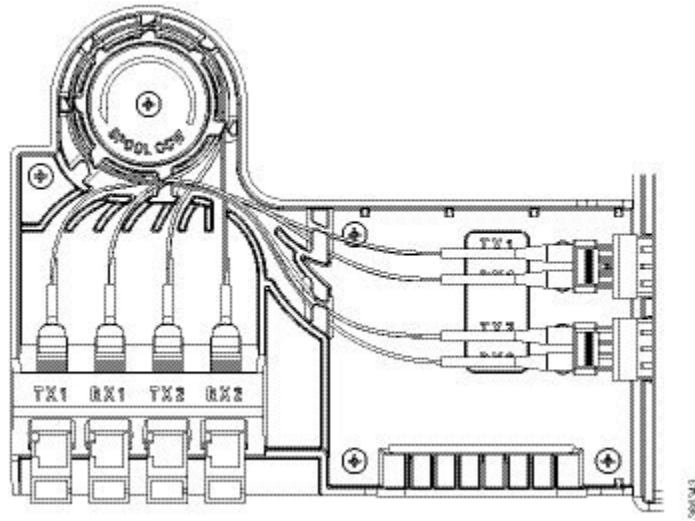
1	Locating Pin		
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1	Screw	2	Locating Hole
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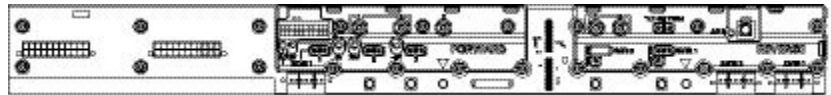
- Step 3** Insert the SC connector of the fiber cable into the SC adapter. Insert the LC connector of the fiber cable into the SFP+ module. The SC connector marked with “TX” on the label needs to be installed into the SC adapter marked with “TX” on top of the fiber tray. The SC connector marked with “RX” on the label needs to be installed into the SC adapter marked with “RX” on top of the fiber tray.



Setting Up Cisco Remote PHY Device on the Cisco GS7000 Node

Procedure

- Step 1** Change the Forward Control Switch in launch amp to Rphy option.
- Step 2** Change the Reverse Control Switch to 4x1 or 4x2 based on your network.
- Step 3** Place the ≥ 6 dB pad at forward path and 0dB pad at reverse path on the OIB.



Note For the Cisco GS7000 node to work in RPHY mode, plug in the pad in the reverse path on the OIB vertically.

- Step 4** For Reverse Path (4x2 mode):
 - a) RF Port 1 and 2 will be routed to RPD US2 Port
 - b) RF Port 4 and 5 will be routed to RPD US1 Port

Configuration Definition

Table 1: Launch FWD CNTRL SW Configuration

Mode Selection	Description
Rphy+Overlay	Routing both Rphy RF signal and Overlay RF signal to launch board

Mode Selection	Description
Overlay	Routing only Overlay RF signal to launch board
Rphy	Routing only Rphy RF signal to launch board

Table 2: Launch REV CNTRL SW Configuration

Mode Selection	Description
4x2	Routing Port1 and Port2 RF signal to XMTR2 or RPD US2 (depends on the OIB PAD direction). Routing Port4 and Port5 RF signal to XMTR1 or RPD US1 (depends on the OIB PAD direction)
4x1	Routing Port1, Port2, Port4, Port5 RF signal to XMTR1, XMTR2 or RPD US1, US2 (depend on the OIB PAD direction)

Table 3: OIB FWD Pad Configuration

FWD Attenuator Pads	Description
Pad 1	Bridging RCVR1 RF signal to launch board, the loss (in dB) produced by an attenuator pad is equal to the value printed on the top of the attenuator pad.
Pad 2	Bridging RPD RF signal to launch board, the loss (in dB) produced by an attenuator pad is equal to the value printed on the top of the attenuator pad.
Pad 3	Reserved

Table 4: OIB REV Pad Configuration

REV Pads	Description
Pad 1 (horizontal)	Bridging launch board RF signal to XMTR1, the loss (in dB) produced by an attenuator pad is equal to the value printed on the top of the attenuator pad.
Pad 2 (horizontal)	Bridging launch board RF signal to XMTR2, the loss (in dB) produced by an attenuator pad is equal to the value printed on the top of the attenuator pad.

REV Pads	Description
Pad 1 (vertical)	Bridging launch board RF signal to RPD US1, the loss (in dB) produced by an attenuator pad is equal to the value printed on the top of the attenuator pad.
Pad 2 (vertical)	Bridging launch board RF signal to RPD US2, the loss (in dB) produced by an attenuator pad is equal to the value printed on the top of the attenuator pad.
Tx2 SM TERM Pad	Only used as a terminator with 75 Ω printed on the top when both XMTR1 and XMTR2 are installed.

Powering Up the Cisco GS7000 Node

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Closing the Cisco GS7000 Node

For more information, see the [Cisco 1.2 GHz Super High Output \(SHO\) GS7000 Node Installation and Operation Guide](#).

