



# Model GS7000 GainMaker Node RF Cable Technical Bulletin

## Overview

### Introduction

A small percentage of Model GS7000 GainMaker® Nodes that were manufactured and shipped prior to May 2008 may exhibit an intermittent "no RF" or "low RF" condition in the forward or reverse path. This condition can be caused by forward or reverse RF cables that have intermittent continuity.

### Purpose

This document explains to customers using the Model GS7000 Node how to check and replace these cables, if necessary.

### Audience

This document is intended for authorized service personnel who have experience working with similar equipment. The service personnel should have appropriate background and knowledge to complete the procedures described in this document.

### Qualified Personnel

Only appropriately qualified and skilled service personnel should attempt to install, operate, maintain, and service this product.



#### **WARNING:**

**Allow only qualified and skilled personnel to install, operate, maintain, and service this product. Otherwise, personal injury or equipment damage may occur.**

### Related Publications

You may find the following publications useful as you implement the procedures in this document.

- *Model GS7000 GainMaker Scaleable 4-Port Node Installation and Operation Guide*, part number 4013584

## Identification of Affected Nodes

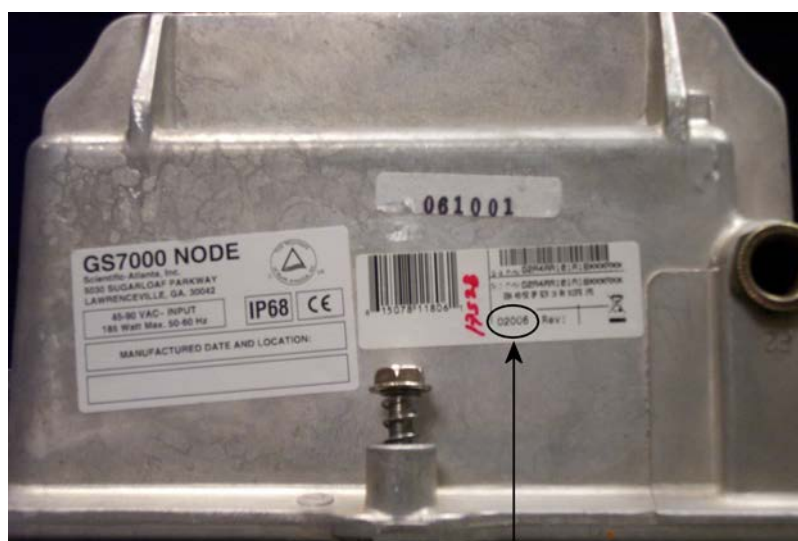
### Affected Nodes

Model GS7000 Nodes with manufactured date codes before May 2008 (E2008) could be affected by this issue.

### Manufactured Date Code Location

The manufactured date code appears on one of the product labels affixed to the side of the node housing. The following illustration shows the location of the date code. The date code in this example is D2006.

**Note:** The letter in the date code indicates the month of manufacture, e.g., A = January, B = February, C = March, D = April, E = May.



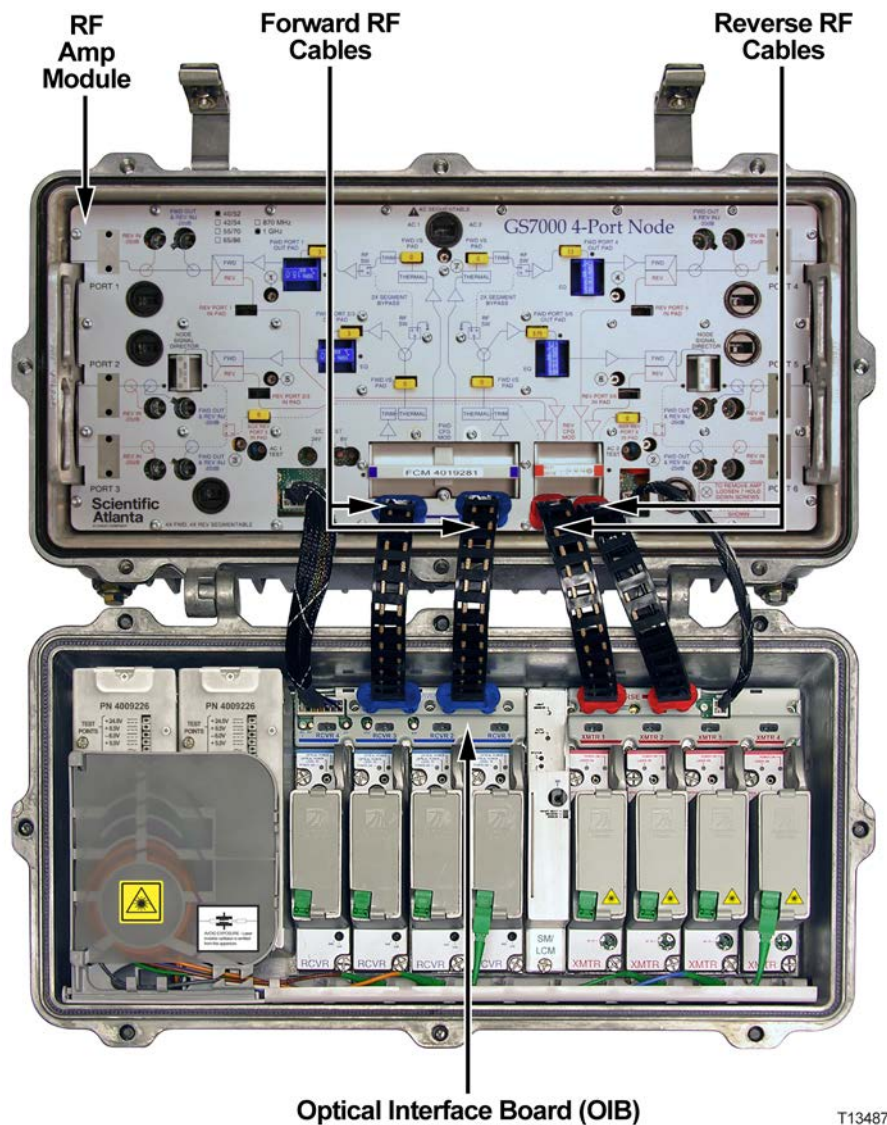
TP365

Manufactured Date Code

## RF Cable Locations

The plug-in RF cables are located between the RF Amplifier Module and the Optical Interface Board (OIB). The RF cable connectors have color-coded plastic molded ends. The forward RF cable connectors are **Blue** and the reverse RF cable connectors are **Red**.

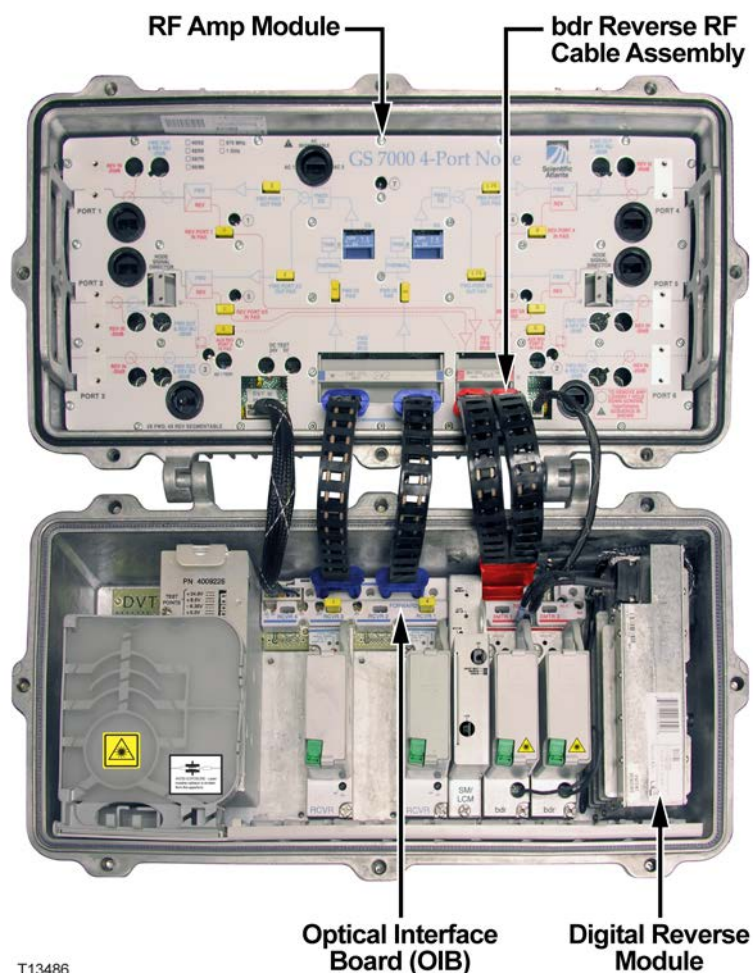
The following illustration shows the location of the cables in an analog reverse node.



T13487

## RF Cable Locations

The bdr™ reverse RF cable connectors are also **Red**. The following illustration shows the location of the cables in a bdr digital reverse node.



T13486

## RF Cable Part Numbers and Illustrations

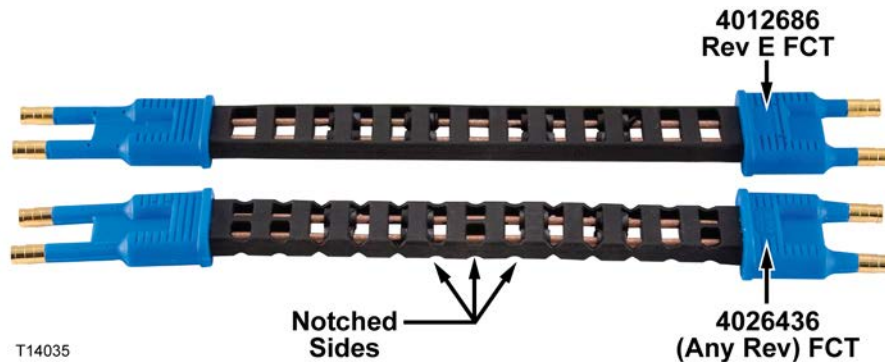
The following cables can be requested from Cisco Services. Refer to *For Information* (on page 8) for phone numbers.

| RF Cable                                       | Part Number                          |
|------------------------------------------------|--------------------------------------|
| Forward RF Cable (Blue Connectors)             | 4012686 (Rev E) or 4026436 (any Rev) |
| Reverse RF Cable (Red Connectors)              | 4012687 (Rev E) or 4026116 (any Rev) |
| bdr Reverse RF Cable Assembly (Red Connectors) | 4009063 (Rev E) or 4030037 (any Rev) |

The following illustrations show the available cables and the location of their part number/revision level information.

### Forward RF Cables

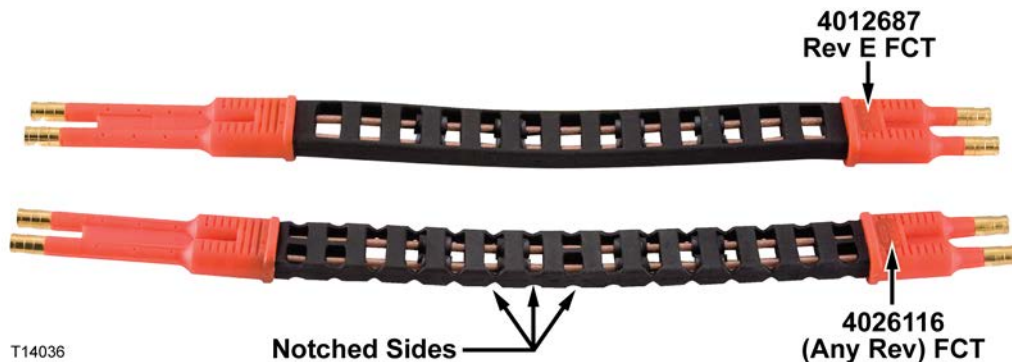
The following illustration shows the forward RF cables and their part numbers/revision levels. Their plastic molded connector ends are **Blue**.



**Note:** Either cable can be used. Both the part number 4012686 Rev E cable or any revision of the part number 4026436 cable correct the intermittent continuity issue described in this technical bulletin.

### Reverse RF Cables

The following illustration shows the reverse RF cables and their part numbers/revision levels. Their plastic molded connector ends are **Red**.

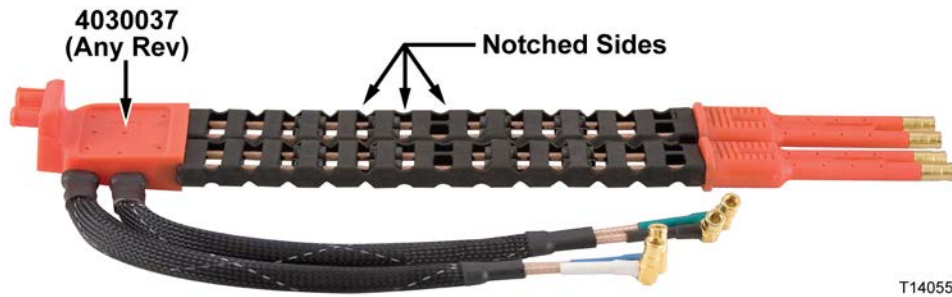
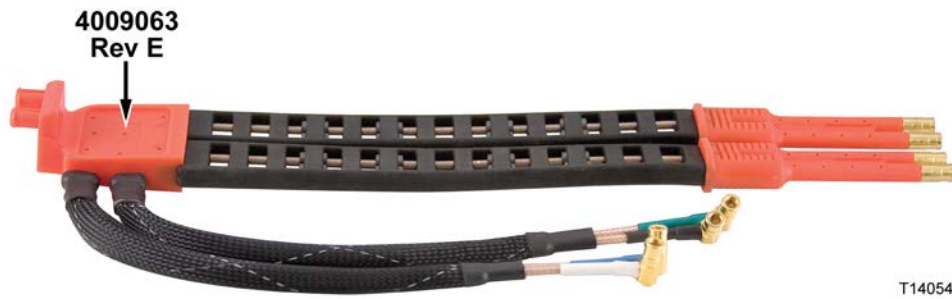


**Note:** Either cable can be used. Both the part number 4012687 Rev E cable or any revision of the part number 4026116 cable correct the intermittent continuity issue described in this technical bulletin.

## RF Cable Locations

### bdr Reverse RF Cables

The following illustrations show the bdr reverse RF cables and their part numbers/revision levels. Their plastic molded connector ends are also **Red**.



**Note:** Either cable can be used. Both the part number 4009063 Rev E cable or any revision of the part number 4030037 cable correct the intermittent continuity issue described in this technical bulletin.

## Recommended Customer Action

### RF Cable Check

If a node is experiencing "no RF" or "low RF" in the forward or reverse path, the associated RF cables may be the cause. Perform the following check.

- 1 Push on the RF cable connectors to ensure they are completely seated in the OIB and the RF amplifier module.
- 2 Check if the node is now operating properly.

**Note:** If the "no RF" or "low RF" condition still exists, replace the RF cables.

### RF Cable Replacement and Verification

Perform the following steps to replace the RF cable(s).

**Important:** Removing these RF cables from a node installed in an operating system will create a service outage.

- 1 Unplug one end of the RF cable from the OIB and the other end of the cable from the RF amplifier module.

**Note:** Pull straight up on the cable connectors, not the cable itself.

- 2 Install a new RF cable making sure the connectors are completely seated into their receptacles.
- 3 Verify the node is now operating properly.

**Note:** If not, the "no RF" or "low RF" condition is being caused by something other than the RF cables. Refer to *Model GS7000 GainMaker Scaleable 4-Port Node Installation and Operation Guide*, part number 4013584 for additional node troubleshooting information.

## For Information

### If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.





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78-4025239-01 Rev D