

Understanding 1- or 2-Port ISDN PRI/Channelized T1 Network Module

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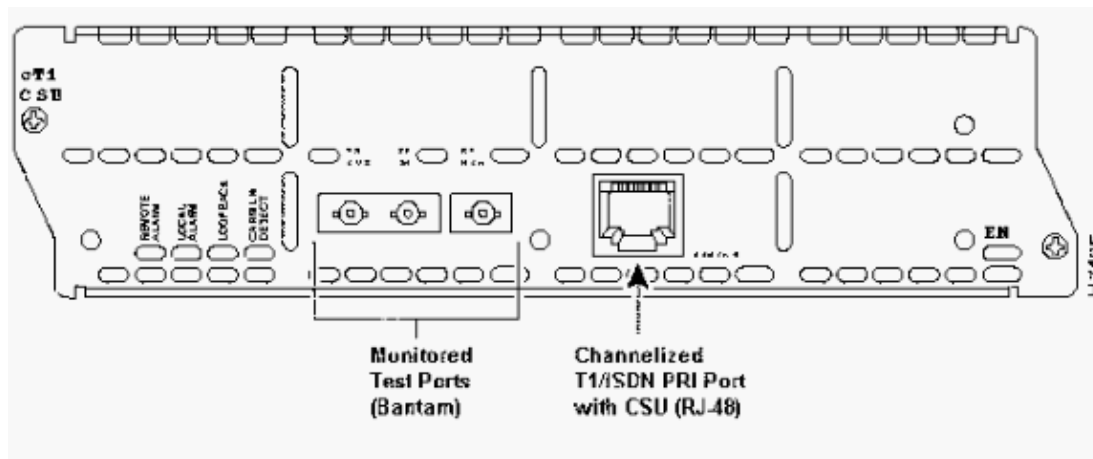
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Introduction

The channelized T1/ISDN Primary Rate Interface (PRI) modules are available with and without a built-in channel service unit (CSU) and with one or two ports. The channelized T1/ISDN PRI modules connect to an external CSU. The channelized T1/ISDN PRI CSU modules connect directly to the Telco network. Each of the T1 modules provides up to 24 virtual channels per T1 port.



Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Product Numbers

| | |
|-------------|--|
| NM-1CT1 | One-Port Channelized T1/ISDN-PRI Network Module |
| NM-2CT1 | Two-Port Channelized T1/ISDN-PRI Network Module |
| NM-1CT1-CSU | One-Port Channelized T1/ISDN-PRI with CSU Network Module |
| NM-2CT1-CSU | Two-Port Channelized T1/ISDN-PRI with CSU Network Module |

Refer to the Fast Ethernet Plus Channelized T1/PRI.

Features

- One or two T1 ports
- Supports channelized T1 or ISDN PRI
 - ◆ Each port is configured independently. You can configure one port for ISDN PRI and the other for channelized T1.
- Available with or without a CSU
- Receiver sensitivity
 - ◆ With CSU, 26 dB or 36 dB, selected by the **cablelength** command
 - ◆ Without CSU, 14 dB
- For reliable operation, a 3 dB margin is recommended.
- The data service unit (DSU) interface (NM-1CT1 and NM-2CT1) is DB-15.
- The CSU interface is RJ-48C

Platform Support

| Product Name | Cisco 2600 | Cisco 2600XM | Cisco 3620, 3640 | Cisco 3631 | Cisco 3660 | Cisco 2691, 3725, 3745 |
|--------------|---|--|--|--|---|--|
| NM-1CT1 | Cisco IOS® Software Releases 11.3(4)T, all 12.x | all Cisco IOS Software | all Cisco IOS Software | all Cisco IOS Software | Cisco IOS Software Releases 12.0(7)XK, | all Cisco IOS Software |
| NM-1CT1-CSU | Cisco IOS Software Releases | releases all Cisco IOS Software releases | releases all Cisco IOS Software releases | releases all Cisco IOS Software releases | 12.1T, 12.2, Cisco IOS 12.2T Software Releases 12.0(7)XK, | releases all Cisco IOS Software releases |

| | | | | | | |
|-------------|--|---------------------------------|---------------------------------|---------------------------------|---|---------------------------------|
| | 11.3(4)T, all 12.x | | | | 12.1T, 12.2, 12.2T | |
| NM-2CT1 | Cisco IOS Software Releases 11.3(4)T, all 12.x | all Cisco IOS Software releases | all Cisco IOS Software releases | all Cisco IOS Software releases | Cisco IOS Software Releases 12.0(7)XK, 12.1T, 12.2, 12.2T | all Cisco IOS Software releases |
| NM-2CT1-CSU | Cisco IOS Software Releases 11.3(4)T, all 12.x | all Cisco IOS Software releases | all Cisco IOS Software releases | all Cisco IOS Software releases | Cisco IOS Software Releases 12.0(7)XK, 12.1T, 12.2, 12.2T | all Cisco IOS Software releases |

Note: The Cisco IOS Software releases provided are typically the minimum version required in order to support the platform, module, or feature in question. Use the Software Advisor (registered customers only) in order to choose appropriate software for your network device: match software features to Cisco IOS and CatOS releases, compare IOS releases, or find out which software releases support your hardware.

Field Notices

- Field Notice: Cisco 3600 T1/E1 PRI Module Upgrade
- Field Notice: Cisco 3600 T1/E1 Module Upgrade
- Field Notice: T1/E1 Network Module Watchdog Time Outs

Configuration

Each interface on the Cisco 2600/3600 series is configured as a slot/unit number. On the 1- or 2-Port ISDN PRI/Channelized T1 Network Module, the interfaces are addressed as **controller <slot>/<unit>**. Simultaneous ISDN PRI and BRI modules in the same chassis requires Cisco IOS Software Release 11.3(3)T.

Refer to Configuring Channelized E1 and Channelized T1 for configuration assistance.

Configure the interface as you would normally configure a Channelized T1/PRI interface on any other router.

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Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

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| NetPro Discussion Forums – Featured Conversations for Access |
| Network Infrastructure: Remote Access |

Related Information

- [Configuring Channelized E1 and Channelized T1](#)
- [Overview of Cisco Network Modules](#)
- [Access Technology Support Page](#)

- **Access Products Support Page**
 - **Technical Support & Documentation – Cisco Systems**
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