



# Understanding 1-Port Fast Ethernet Plus Channelized E1/PRI Network Modules

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## Introduction

This document helps you to understand channelized E1/PRI network modules.

## Prerequisites

### Requirements

There are no specific requirements for this document.

### Components Used

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

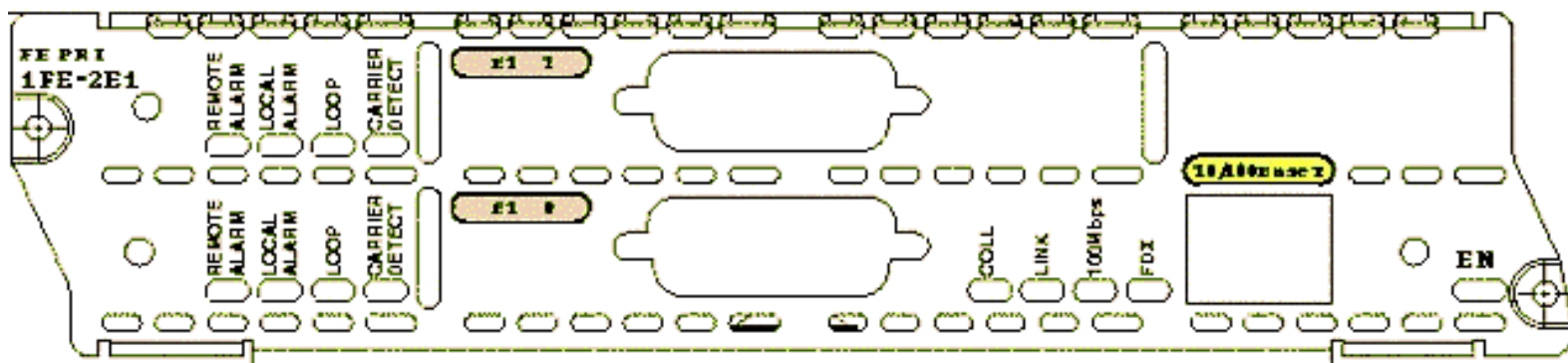
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

## Conventions

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

## Background Information

The channelized E1/ISDN Primary Rate Interface (PRI) modules are available with one or two DB-25 E1 ports with balanced or unbalanced interfaces. The channelized E1/ISDN PRI modules can receive and transmit data bidirectionally at the E1 rate of 2.048 Mbps and provide up to 30 virtual channels per E1 port. The Network Modules also include an RJ-45 Fast Ethernet port for LAN connectivity.



## Product Numbers

Product Number	Description
NM-1FE1CE1B	One-port 10/100 Base-TX Ethernet with one-port E1 PRI/Channelized Balanced mode (120 ohm)
NM-1FE1CE1U	One-port 10/100 Base-TX Ethernet with one-port E1 PRI/Channelized Unbalanced mode (75 ohm)
NM-1FE2CE1B	One-port 10/100 Base-TX Ethernet with two-port E1 PRI/Channelized Balanced mode (120 ohm)

NM-1FE2CE1U	One-port 10/100 Base-TX Ethernet with two-port E1 PRI/Channelized Unbalanced mode (75 ohm)
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## Features

Feature	Description
Fast Ethernet Connector	RJ-45 100 BaseT interface (no MII port, no fiber option).
E1 Connector	DB 15 connector.
E1 Mode	These network modules can be field configured to balanced (120 ohm) or unbalanced (75 ohm) operation by changing jumpers on the network module.
Fast Ethernet Speed	10 or 100 Mbps speed, auto-sensing.
Fast Ethernet Duplex	<p>Full- or half-duplex, auto-negotiating (at 10 Mbps and 100 Mbps).</p> <ul style="list-style-type: none"> <li>• Default is auto-negotiate.</li> <li>• If peer does not negotiate, runs in half-duplex.</li> <li>• Can force full-duplex with <b>full-duplex</b> interface configuration command.</li> </ul> <p>The <b>no full-duplex</b> command returns to the default mode, auto-negotiation. The <b>no full-duplex</b> command does not configure the interface for half-duplex.</p>

ISL	Supported in hardware, requires Cisco "IOS® Plus" Feature set.
Fast Etherchannel	Not supported.
E1 Support	<ul style="list-style-type: none"> <li>• Same features and functionality as <a href="#">NM-1CE1B</a>, <a href="#">NM-1CE1U</a>, <a href="#">NM-2CE1B</a>, <a href="#">NM-2CE1U</a> (with the addition of configurable impedance).</li> <li>• Each port is configured independently. You can configure one port for ISDN and the other for channelized E1.</li> <li>• Supports framed G.704. For unframed G.703 see the <a href="#">VWIC-1MFT-G703</a>.</li> </ul>

## Platform Support

Product Name	Cisco 2600, 2600XM	Cisco 3620, 3640	Cisco 3631	Cisco 3660	Cisco 2691, 3725, 3745
NM-1FE1CE1B	not supported	Cisco IOS versions 11.3(4) T1, 12.0(1)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	not supported	Cisco IOS versions 12.0(7) XK, 12.1T, 12.2, 12.2T	not supported

NM-1FE1CE1U	not supported	Cisco IOS versions 11.3(4) T1, 12.0(1)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	not supported	Cisco IOS versions 12.0(7) XK, 12.1T, 12.2, 12.2T	not supported
NM-1FE2CE1B	not supported	Cisco IOS versions 11.3(4) T1, 12.0(1)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	not supported	Cisco IOS versions 12.0(7) XK, 12.1T, 12.2, 12.2T	not supported
NM-1FE2CE1U	not supported	Cisco IOS versions 11.3(4) T1, 12.0(1)T, 12.0XK, 12.1, 12.1T, 12.2, 12.2T	not supported	Cisco IOS versions 12.0(7) XK, 12.1T, 12.2, 12.2T	not supported

There is no restriction on the number of these modules that can operate in a chassis.

**Note:** The Cisco IOS software releases provided are typically the minimum version required to support the platform, module, or feature in question. Use the [Software Advisor](#) (registered customers only) 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. The Software Advisor and other tools are available in [TAC Tools and Utilities](#).

## Configuration

Each interface on the Cisco 3600 series is configured as a slot/unit number. On the 1- or 2-Port ISDN PRI/Channelized E1 Network Module, the Fast Ethernet interface is addressed as **interface fastethernet <slot>/<port>** and the E1 interfaces are addressed as **controller <slot>/<unit>**. Concurrent ISDN BRI and PRI module support requires Cisco IOS 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 E1/PRI interface on any other router.

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[excluding interfaces from sgbp ppp-forward](#) - Sep 23, 2004

## Related Information

- [Configuring Channelized E1 and Channelized T1](#)
- [Connecting Fast Ethernet-PRI Network Modules](#)
- [Overview of Cisco Network Modules](#)
- [Access Products Support Page](#)
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