



# 4-PORT ISDN BRI PHYSICAL INTERFACE MODULES (PIMS)

## Product Overview

Juniper Networks 4-port ISDN BRI Physical Interface Modules (PIMs) are for use with Juniper Networks J2320, J2350, J4350, and J6350 Services Routers. These PIMs include four physical ports and support ISDN BRI S/T interface types. For ISDN BRI U interface types, a separate part number is available and an external NT-1 is required.

## Product Description

Juniper Networks® 4-port ISDN Basic Rate Interface (BRI) Physical Interface Modules (PIM) for the J Series Service Routers provide the physical connection to ISDN network media types receiving incoming packets from the network and transmitting outgoing packets to the network. The 4-port ISDN BRI PIM forwards packets for processing while performing framing and line-speed signaling.

## Features and Benefits

### Juniper Networks ISDN PIM provides the following benefits:

- High-density form factor allows for increased bandwidth capabilities while making most effective use of the Juniper Networks J Series Services Routers' modular interface slots.
- Highly integrated backup features required to seamlessly re-establish network access in the event of a connectivity failure.
- The bandwidth on demand feature provides the ability to define bandwidth thresholds that need to be met before the initiation of additional ISDN data connections to control associated connectivity costs.
- Complete configuration and management by command-line interface (CLI) or Web user interface.

### Features:

- On demand routing
- Bandwidth on demand
- Dial backup
- Dial-on-demand routing (DDR) floating static and dialer watch

## Specifications

### Dimensions (H x W x D)

- 0.63 x 5.45 x 6.5 in. (1.6 x 13.8 x 16.5 cm)

### Interface connector

- 4x RJ-45

### Environmental

- Operating temperature: 32° to 104° F (0° to 40° C)
- Storage temperature: -40° to 158° F (-40° to 70° C)
- Relative humidity: 5% to 90% non-condensing

## LEDs

PIM LED's indicate port status with the following LED states:

Color	State	Description
Green	On steadily	Online with no alarms or failures
Red	On steadily	Active with a local alarm; router has detected a failure

## Standards and Compliance

### Agency/Regulatory Compliance

#### Safety

- CAN/CSA-C22.2 No.60950/UL 60950 Third Edition - Safety of Information Technology Equipment
- EN 60950 (2000) Third edition - Safety of Information Technology Equipment
- IEC 60950 (1999) Third edition - Safety of Information Technology Equipment

#### EMC (Emissions)

- FCC Part 15 Class B (USA)
- EN 55022 Class B (Europe)
- AS 3548 Class B (Australia)
- VCCI Class B (Japan)
- BSMI Class B (Taiwan)

#### Immunity

- EN 55024
- EN-61000-4-2 ESD
- EN-61000-4-3 Radiated Immunity
- EN-61000-4-4 EFT
- EN-61000-4-5 Surge
- EN-61000-4-6 Low Frequency Common Immunity
- EN-61000-4-11 Voltage Dips and Sags

### European Telecommunications Standardization Institute (ETSI)

- ETSI EN-300386-2: Telecommunication Network Equipment Electromagnetic Compatibility Requirements

#### Telecom

- FCC Part 68/TIA-968
- IC CS-03

## ITU Standards Compliance

- Layer 1: ITU-T I.430
- Layer 2: ITU-T Q.920, ITU-T Q.921: LAPD
- Layer 3: ITU-T I.450, ITU-T I.451

## ISDN Protocols Supported

- att5e – AT&T switch variant
- etsi – ETSI switch variant
- nil – National ISDN 1 switch variant
- ntdms-100 – Northern Telecom DMS-100
- ntt – NTT Group switch for Japan

## Juniper Networks Services and Support

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## Ordering Information

Model number	Description
JX-4BRI-S-S	4-port ISDN BRI S/T interface card
JX-4BRI-U-S	4-port ISDN BRI U interface card

## Junos Operating System Release

The ISDN PIMs are supported in Juniper Networks Junos® operating system 7.3 or higher on the J Series services routers.

## About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at [juniper.net](http://juniper.net).

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