



Juniper Networks 4-port ISDN BRI Physical Interface Modules (PIMs)

Product Description

The Juniper 4-port ISDN BRI PIM provides the physical connection to ISDN network media types receiving incoming packets from the network and transmitting outgoing packets to the network. The Juniper 4-port ISDN BRI PIM is equipped with a dedicated network processor that forwards incoming data packets to the Routing Engine and receives outgoing data packets from the Routing Engine while performing framing and line-speed signaling.

The Juniper ISDN PIM provides the following benefits:

- High-density form factor allows for increased bandwidth capabilities while making most effective use of the J-series router modular interface slots.
- Highly integrated back-up feature suite 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 required to be met before the initiation of additional ISDN data connections in order to control associated connectivity costs.

Features:

- On-Demand routing
- Bandwidth on demand
- Dial backup
- Dial-on-Demand Routing (DDR): Floating static & dialer watch

Specifications

Product 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 Software Release

The ISDN PIMs are supported in JUNOS 7.3 or greater on the J-series Services Routers.

Interface connector

- 4x RJ-45

Dimensions (H x W x D)

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

Environmental

Operating temperature: 0 to 40°C

Storage temperature: -40 to 70°

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.

Management Capabilities

Telnet/Console/JWeb

Remote and local configuration, monitoring, and troubleshooting

The Juniper 4-port ISDN BRI Physical Interface Modules (PIMs) are for use with the J2320, J2350, J4300, J4350, J6300, and J6350 Services Routers. These PIMs include four physical ports and support ISDN BRI S/T or ISDN BRI U interface types.

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

ETSI

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

ETSI

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

Standards

- **ITU Standards:** Compliance with ITU standards
 - 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:** Support for the following ISDN protocols
 - att5e – AT&T switch variant
 - etsi – European Telecommunications Standards Institute switch variant
 - ni1 – National ISDN 1 switch variant
 - ntdms-100 – Northern Telecom DMS-100
 - ntt – NTT Group switch for Japan

About Juniper

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at www.juniper.net.



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