



ISDN BRI MINI-PIM

Product Overview

The Juniper Networks single port ISDN Basic Rate Interface (BRI) Mini-Physical Interface Modules (Mini-PIMs) for the Juniper Networks SSG20 Secure Services Gateway complement the five on-board 10/100 Ethernet interfaces with expanded WAN connectivity. The ISDN BRI Mini-PIM includes a single physical port supporting ISDN BRI S/T interface types. For ISDN U interface support, an external NT-1 is required.

Product Description

The Juniper Networks® ISDN BRI Mini-PIM provides the physical connection to ISDN network media types receiving incoming packets from the network and transmitting outgoing packets to the network. The ISDN BRI Mini-PIM forwards packets for processing while performing framing and line-speed signaling.

Features and Benefits

- Dial-backup on demand
- Multilink Point-to-Point Protocol (MLPPP) over two ISDN B-channels
- Bandwidth on demand
- Complete configuration and management by command-line interface (CLI), Web user interface, or Juniper Networks Network and Security Manager (NSM)

Table 1: ADSL/ADSL2/ADSL2+ Features and Benefits

FEATURE	FEATURE DESCRIPTION	BENEFIT
ADSL/ADSL2/ADSL2+ support	Same module can be used in ADSL, ADSL2, and ADSL2+ environments	Provides investment protection when upgrading WAN connectivity
Automatic configuration	Automatically configures the ADSL line after negotiating with the DSL access multiplexer (DSLAM)	Minimizes configuration and support overhead
Dedicated network processor	Provides additional processing resources	Helps maintain predictable WAN performance by offloading the J Series and SSG Series CPU
Dying gasp support	Notifies the DSLAM, in the event of power loss, that the SSG Series or J Series about to go offline	Reduces downtime associated with unplanned power outages

Specifications

Dimensions (W x H x D) and Weight

- 5.9 x 3.75 x 0.8 in (14.5 x 9.5 x 2 cm)
- 0.17 lb (77.1 g)

Environmental

- Operating temperature: 0–40° C
- Storage temperature: –40 to 70° C
- Relative humidity: 5 to 90% noncondensing

LEDs

PIM LEDs indicate port status with the following LED states:

- CH1 - Channel 1 – Green
- CH2 - Channel 2 – Green

Standards and 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

- TBR3

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

Performance-Enabling Services and Support

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains, faster rollouts of new business models and ventures, and greater market reach, while generating higher levels of customer satisfaction. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/products-services.

Ordering Information

PRODUCT NUMBER	DESCRIPTION
JXM-1BRI-ST-S	1-port ISDN S/T BRI Mini-Physical Interface Module

The ISDN BRI Mini-PIMs are supported in ScreenOS 5.4 or greater on the SSG20 platforms.

About Juniper Networks

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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