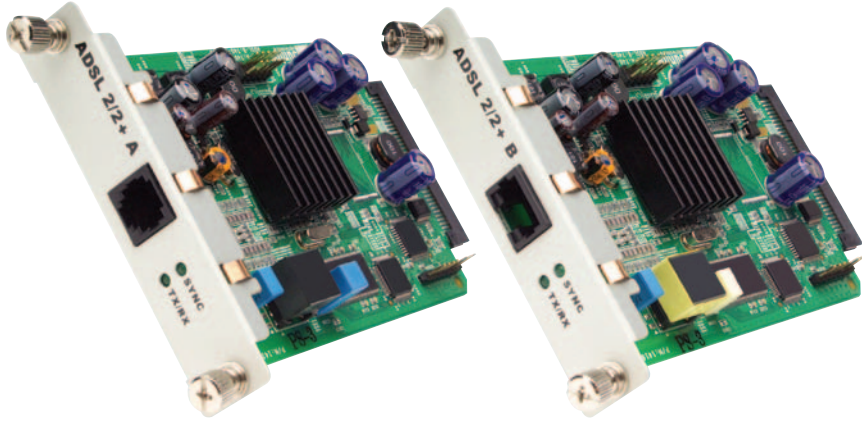# Juniper Networks ADSL2/2+ Mini-PIM

The Juniper Networks ADSL2/2+ Mini-Physical Interface Modules (Mini-PIMs) are for use with the SSG 20 platform. The ADSL2/2+ Mini-PIMs, one supporting Annex A (over POTS) and the other Annex B (over ISDN), each include one physical ADSL port that support ADSL, ADSL2 or ADSL2+ protocols.

The Juniper Networks single-port ADSL2/2+ Mini Physical Interface Modules (Mini-PIM) for the SSG 20 platform complement the five on-board 10/100 Ethernet interfaces with expanded WAN connectivity. The ADSL2/2+ Annex A (over POTS) and ADSL2/2+ Annex B (over ISDN) both include one physical port with support for ADSL, ADSL2 or ADSL2+ protocols.

Features

- Automatic configuration of ADSL line after negotiating with the DSLAM minimizing configuration
- One RJ-11 or RJ-45 ADSL Interface
- Supports ADSL, ADSL2 and ADSL2+ protocols on the same interface card
- Dying Gasp support
- MLPPP over two ADSL Cards
- Supports ATM AAL5 with CBR, VBR-nrt and UBR traffic types

Specifications

Product Number	Description
JXM-1ADSL2-A-S	1 Port ADSL 2/2+ interface card with Annex A (over POTS) support, RJ-11
JXM-1ADSL2-B-S	1 Port ADSL 2/2+ interface card with Annex B (over ISDN) support, RJ-45

ScreenOS Software Release

ADSL2/2+ Annex A and Annex B functionality is supported in ScreenOS 5.4 or greater

Dimensions (W x L x H) and Weight

- 3.75" x 5.9" x 0.80"
- 9.5 cm x 14.5 cm x 2.0 cm
- 0.17 lb. (77.1g)

ATM

- ATM Adaptation Layer 5 (AAL5)
- Up to 10 Permanent Virtual Circuits (PVCs) per card
- CBR, VBR-nrt and UBR

Environmental

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

Diagnostics

- OAM F4 far loopback test
- OAM F4 near loopback test
- OAM F5 far loopback test
- OAM F5 near loopback test

LEDs

PIM LED's indicate port status with the following LED states:
  - SYNC - Green
  - TX/RX - Green

Management Capabilities Telnet/Console/Web

Remote and local configuration, monitoring, and troubleshooting

Standards and Compliance

Agency/Regulatory Compliance

Safety
- CAN/CSA-C22.2 No. 60950-1-03/UL 60950-1 Third Edition, Safety of Information Technology Equipment
- EN 60950-1:2001 + A11, Safety of Information Technology Equipment
- IEC 60950-1:2001 First Edition, Safety of Information Technology Equipment

EMC (Emissions)
- AS/NZS CISPR22 Class B
- EN-61000-3-2 Harmonic current emissions
- EN-61000-3-3 Voltage flucuations
- FCC Part 15 Class B (USA)
- EN 55022 Class B (Europe)
- 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

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

Standards
- ANSI T1.413 II compliant (vendor version 1)
- G994.1 (G.HS) Version 05/03 + Amendment 1 (02/04)
  - Annex A (POTS overlay)
  - Annex B (ISDN overlay)
  - Appendix 1 (ATM Interface – Utopia)
- G992.1 (G.DMT; ADSL)
  - Annex A (POTS Overlay)
  - Annex B (ISDN Overlay)
  - Appendix 1 (ATM Interface-Utopia)
- G992.3 (G.DMTbis; ADSL2) + Amendment 1,2
  - Annex A (POTS overlay)
  - Annex B (ISDN overlay)
  - Annex L (Reach Extended)
  - Appendix 1 (ATM Interface – Utopia)
- G992.5 (ADSL2+) + Corrigendum 1 + Amendment 2
  - Annex A (POTS overlay)
  - Annex B (ISDN overlay)
  - Appendix 1 (ATM Interface – Utopia)
- ETSI TS 101 388 V1.3.1