

GSX9000™ High-Density Media Gateway

Ribbon PNS41 Packet Network Server Card

The Ribbon Communications' PNS41 card processes packet-based media traffic on the Ribbon GSX9000 high-density media gateway. A single PNS41 card supports nearly 20,000 concurrent circuit-to-packet or packet-to-circuit G.711 sessions, and up to 7,500 packet-to-packet G.711 sessions. Each card features a redundant failure configuration and is hot-swappable for live upgrades, which allows network operators to accommodate a growing mix of IP-based media traffic without service disruption or planned downtime.

Call Capacity

- Circuit-to-Packet applications: Up to 19,957 G.711 20 msec RTP sessions
- Packet-to-Packet applications: Up to 7,500 P2P G.711 20 msec RTP sessions (15,000 call legs)

Interface Options

- Two (2) x 10/100Base-TX RJ-45 connectors
- RS-232 Serial Asynchronous Management Port
- DB-15 Connector for DS1/E1 timing interface

Management Interface

- RS-232 Serial Asynchronous Management Port

Redundancy

- 1:1 up to 4:1

IP Interface

- Transaction Control Protocol (TCP)
- User Datagram Protocol (UDP)
- Internet Protocol (IP)
- Internet Control Message Protocol (ICMP)

Mgmt. Module Bearer Interfaces

- PNA40 Adapter: Two Single-Mode Gigabit Ethernet, Duplex LC Transceivers
 - Max Cable Length: 10,000 meters
 - Interface Standard: Optical Interface as specified by IEEE 802.3z LX 1310 nm specs for interconnection
 - Transmitter Range: -3 dBm max, -11 dBm min
 - Receiver Range: -3 dBm max, -19 dBm min
- PNA45 Adapter: Two Multi-Mode Gigabit Ethernet, Duplex LC Transceivers
 - Max Cable Length: 275 meters of 62.5-micron fiber or 550 meters of 50-micron fiber
 - Interface Standard: Optical Interfaces as specified by IEEE 802.3z SX 850 nm specs for interconnection
 - Transmitter Range: -3 dBm max, -11 dBm min
 - Receiver Range: -3 dBm max, -19 dBm min



Routing Protocols

- Open Shortest Path First (OSPF)

Quality of Service

- Type of Service (TOS) Bits
- DiffServ

LED Status Indicators

- Card/Module Status (Power, Status, Active, Fault, Redundant)
- Port 1 and Port 2 Activity
- Port 1 and Port 2 Link
- Field Service

Environmental

- Operating Temperature: 5° to 40° C
- Short Term: -5° to 55° C
- Non-Condensing Operating Humidity: 5% to 90%

Power

- Nominal Consumption: 1.5 Amps @ 48 VDC

Weight

- 3.0 lbs.

About Ribbon

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. We maintain a keen focus on our commitments to Environmental, Social and Governance (ESG) matters, offering an annual Sustainability Report to our stakeholders. To learn more about Ribbon, please visit [ribbon.com](https://www.ribbon.com).

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