

GSX9000™ High-Density Media Gateway

Circuit Network Server 81 (CNS81) Optical Circuit Module

The Ribbon Communications' CNS81 optical circuit module processes circuit-based traffic on the Ribbon GSX9000 high-density media gateway. A single CNS81 module supports up to 2,016 DS0s. Each module features a redundant failure configuration and is hot-swappable for live upgrades without service disruption or scheduled downtime.

Call Capacity

- Up to 2,016 DS0s (84 T1s, 63 E1s or 3 T3s)

Interface Options

- Two (2) x OC-3/STM-1 (1+1 Automatic Protection Switching)
- Single-mode, intermediate-reach 15 km fiber
- LC connector

Framing

- SONET/SDH
- T3
- M13
- C-bit
- T1
- D4/SF
- ESF
- E1
- MF
- MF-CRC

Mapping

- VT1.5
- VT2.0
- VC-11
- VC-12

Standards

- ANSI
- T1.102
- T1.107
- T1.403
- T1.404
- ITU-T
- G.703
- G.704
- G.706
- G.707
- G.823
- G.957
- CTR13



Management Interface

- RS-232 Serial Asynchronous Management Port

Redundancy

- N:1 server redundancy
- Linear 1+1 Automatic Protection Switching per ITU-T G.783, JT-G.783 and Telcordia GR-253

Status Indicators

- Module Indicators
 - Power
 - Status
 - Activity
 - Fault
 - Redundancy
- Optical Port Indicators
 - Status: Port is connected and passing frames
 - Yellow: Far end failure
 - Red: Near end failure
 - Active: Port is carrying traffic
 - Fault: Hardware fault detected

Channel Hunting

- Circular Sequential
- Backward Circular Sequential
- Most Idle
- Least Idle
- Top to Bottom
- Bottom to Top
- High to Low
- Low to High

Voice Handling

- G.711 (A/u-law) via RTP or AAL1 Encapsulation
 - RTP Packet Sizes: 10 to 40ms in 5ms Increments
 - RTCP
- G.168 Echo Cancellation up to 128ms
- Silence Suppression
- Comfort Noise Generation
- Adaptive Jitter Compensation with Packet Re-Ordering
- Fixed Gain Control

Tones and Announcements

- ISUP Continuity Test Tones
- Long Digit Detection
- DTMF/MF Collection and Generation
- Call Progress Generation and Detection
- Announcement Support

Environmental

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

Power

- Nominal Consumption: 1.3 Amps
- Peak Consumption: 5.1 Amps
- Laser Output: -15 to -8 dBm

Weight

- 3.5 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 rbbn.com.

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