CBX 500® Multiservice WAN Switch



Increase your multiservice capacity at the network edge. The CBX 500® Multiservice WAN Switch supports ATM, Frame Relay (FR), and IP/MPLS. With industry-leading port densities and service interfaces, the CBX 500® switch equips you to deliver cost-effective and highly scalable ATM, FR, and IP services. The CBX 500® switch design incorporates a wide range of software and hardware fault tolerance features that enable you to provide service continuity. Meanwhile, the CBX 500® switch's quad-plane, redundant switching architecture allows you to provide ATM-level QoS to any service as well as the bandwidth guarantees your customers require—helping you meet service level agreements.

Applications

- Increase edge capacity for ATM, FR, and IP services for large market deployments
- Aggregate incoming traffic onto OC-12c/STM-4 trunks for cost-effective transport

Benefits

- Create new revenue through multiservice capability by extending ATM and FR services, and adding IP services in your network
- Differentiate services with QoS and preserve SLAs
- Simplify network management with Navis™ network management software

Features

- Multiservice Traffic Support—Flexibility to change your service mix to meet demand
- Proven Carrier-Class Reliability, Availability, and Fault Tolerance—Switch fabric and module redundancy, Automatic Protection Switching (APS), and automatic failover help provide service continuity
- Multiservice Provisioning—Deliver high-speed ATM trunking and high-density ATM, FR, and IP/MPLS services from one CBX 500® switch
- Scalability—High port densities, high virtual circuit support, and distributed routing and signaling increase service capacity

Technical Specifications

Description	Specifications
1. Protocols Supported	
ATM/Frame Relay:	UNI 3.0/3.1/4.0, TM 4.0, IISP, PNNI, B-ICI, FR UNI (DTE and DCE), FR NNI, FRF.5 and FRF.8 ATM to Frame Relay Interworking
IP/MPLS:	BGP-4, OSPF, RIP, Static, MOSPF, DVMRP, IGMP, PPP
Ethernet:	10/100 Mbps
2. Physical Interface Cards	
ATM Input/Output Modules:	
a. 1-port OC-12c/STM-4	Up to 14 OC-12c/STM-4 ports, with 8 ports at full bandwidth capacity
b. 4-port OC-3c/STM-1	Up to 56 OC-3c/STM-1 ports, with 28 ports at full bandwidth capacity
c. 8-port DS1/E1	Up to 112 ports per chassis
d. 8-port DS3/E3	Up to 112 ports per chassis
e. 3-port Channelized DS3/1 with IMA	1,176 ATM with IMA DS1 ports
FR/IP MPLS Input/Output Modules:	
a. 6-port DS3	Up to 84 DS3 ports per chassis
b. 4-port 10/100 Mbps Ethernet Processor	Up to 56 ports per chassis
c. 4-port Channelized DS3/1/0	Up to 14,436 DS0 ports per chassis
d. 4-port Channelized DS3/1	Up to 1,568 DS1 ports per chassis
e. 8-port DS3 Subrate	Up to 112 DS3/subrate ports per chassis
f. 32-port Channelized T1/E1	Up to 1,568 DS1 ports per chassis
g. 1-port Channelized STM-1/E1 with IMA	Up to 14 STM-1 ports per chassis
3. System Architecture	
• 5 Gbps full duplex switch fabric • Hot-swappable components • Lossless switchover to redundant switch fabric • Distributed routing and signaling • Redundant processors, modules, fans, timing, and power	• Quad-plane architecture • Priority-based circuit routing • External/Internal Stratum 3 timing • Multimode LED-based interfaces

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Technical Specifications *(continued)*

Description	Specifications

4. **Multiservice Switch Operating Software (MXOS™)**

   Carrier-class, innovative software for increased switch reliability and network scalability; IP/MPLS Feature Pack is available for advanced IP services delivery

5. **Navis™ Network Management Software**

   - End-to-end, standards-based management of Lucent IP, MPLS, FR, and ATM multiservice networks
   - Multiservice management from a single platform
   - Reduced operating costs
   - Point, click, done provisioning for faster and easier service delivery, moves, adds, and changes
   - Helps minimize service provider training costs for multiservice solutions
   - Extensive configuration, performance management, and security support

6. **Physical Dimensions**

Size:	Height 33.25" (84.46 cm)
	Width 19" (48.26 cm)
	Depth 15" (38.1 cm)
Weight:	Less than 200 lb (90.7 kg) fully configured
Rack Mount Options:	EIA 19" or 23" midmount, central office style

7. **Power Requirements**

AC Power:	Autoranging 100 to 240 AC
DC Power:	-48 to -60 volts DC
Current:	12 amps @ 120 volts AC 45 amps @ -48 volts DC
Thermal Dissipation:	Maximum 1400 watts per power supply

8. **Environmental Conditions**

Temperature:	32° F -122° F (0° C -50° C)

9. **Product Certifications**

Environmental/NEBS	• GR-63-CORE • GR-1089-CORE
Safety	• UL 1950 • CAS 9590
EMC	• FCC Part 15 Class A • EN55022 Class A

To learn more about our comprehensive portfolio, please contact your Lucent Technologies Sales Representative, Lucent BusinessPartner or, visit our web site at www.lucent.com, or www.lucent.com/products/multiserviceswitching

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