

Cisco MGX 8250 Edge Concentrator

The Cisco MGX™ 8250 Edge Concentrator supports aggregation of a complete range of IP, voice, and narrowband services in an IP+ATM network. It can be used as a standalone gateway or as an edge concentrator for the Cisco BPX 8600 series and MGX 8850 PXM-45 Advanced ATM multiservice switches.

Key Features

- Full featured narrowband ATM for managed data, voice, and video services
- Comprehensive range of Frame Relay, ATM, Circuit Emulation, Voice and IP services
- Full redundancy for maximum service flexibility

Services

- Frame Relay
- ATM
- Frame Relay-to-ATM networking interworking
- Frame Relay-to-ATM service interworking
- Circuit Emulation
- Voice over IP
- Voice over ATM
- IP transport
- IP VPNs

- Virtual Switch Architecture for Multiple Control Plane Usage

Cisco MGX 8250 System Specifications

Mechanical Configuration

- 32 single-height (16 double-height) function module slots (single-height slots can be in-service converted to double-height slots by removal of midrail dividers)
- 2 double-height slots reserved for redundant processor switch modules
- 4 single-height (2 double-height) slots reserved for optional value-added service resource modules
- 24 single-height (12 double-height) slots for service modules

Dimensions

- H x W x D: 29.75 x 17.72 x 21.5 in. (75.6 x 45.0 x 54.6 cm)
- Rack-mountable in 19 and 23-in. EIA/RETMA and European Telecommunication Standards Institute (ETSI) racks

Switching Fabric

- 1.2 Gbps shared-memory fabric (processor switching module)





Network Interfaces

- OC-12c/STM-4
- OC-3c/STM-1
- T3
- E3
- Channelized T3 (down to DS0)
- n x T1/E1
- T1/E1
- Channelized T1 (down to DS0)
- Channelized E1
- High-Speed Serial Interface (HSSI), X.21, V.35
- Ethernet
- Fast Ethernet

Optional

Optional Redundancy

- All core components can be configured for redundancy including the control processor, switching fabric, network interfaces, critical backplane signals, service interfaces, power supplies, and power modules.

Node Synchronization

- Internal Stratum-4E clocking
- Internal Stratum-3 clock source (optional)
- BITS reference clock (optional)
- External T1/E1 building integration timing supply (BITS) source
- External source received inband over the network
- Synchronization to software-programmable primary and secondary sources, with automatic switchover

Network Management

Cisco WAN Manager (CWM) is a Telecommunications Management Network standards-based network and element management system that enables operations, administration, and maintenance (OA&M) of the Cisco MGX 8250 Multiservice Gateway.

- Robust and scalable architecture meets the demand of service providers to provision and deliver a complete portfolio of differentiated services
- Web-based graphical user interface
- SNMP and Open API for seamless integration with OSS and third-party management systems
- Full FCAPS (fault, configuration, accounting, performance, and security) features
- Integrates with Cisco Info Center and Cisco Provisioning Center for multivendor, multitechnology end-to-end VPN service assurance and activation
- Collection of usage data from network connections and interfaces for innovative usage-based billing to customers
- Available on major UNIX platforms (Solaris, HP-UX, AIX) and integrate with HP OpenView



Professional Services

Cisco offers a full range of professional service options for the MGX 8250, including network design and audit services, project management, equipment installation, and turnkey network implementation.

Electrical Specifications

- Input power required: -48 VDC
- Optional AC powering
- Typical power consumption: 1000W

Electromagnetic Compatibility

- EN55022 (CISPR22)
- CFR 47 Part 15 (FCC)
- AS/NZS 3548 (Australia/New Zealand)
- ETS 300 386-2 (EN300 386-2)
- EN 61000-4-2 (IEC-61000-4-2)
- EN 61000-4-3 (IEC-61000-4-3)
- EN 61000-4-4 (IEC-61000-4-4)
- EN 61000-4-5 (IEC-61000-4-5)

Electrical and Safety Standards Compliance

- EMI/ESD compliance
 - FCC Part 15
 - Bellcore GR1089-CORE
 - IEC 801-2
 - EN55022
- Safety compliance
 - UL 1950, CSA C22.2No. 950, EN60950, AS/NZS 3260, IEC 60950
 - IEC 60825-1, EN60825-1
 - Bellcore NEBS: Level 3-compliant
 - Optical safety: IEC 825-1 (Class 1)

Standards Compliance

- FCC 47 CFR Part 68
- Industry Canada CS-03
- ITU-T G.703
- ANSI T1.102
- ANSI T1.107
- ANSI T1.105
- ITU-T G.957
- ITU-G-783 Annex-A



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