

secure, control, monitor and extend SIP applications and services



The Covergence Eclipse CXC-1250 meets the performance and availability requirements of the most demanding SIP security and management environments with its fault-tolerant power, cooling and storage capabilities, and hardware-based media acceleration.

Eclipse makes real-time a reality

Flexible

The Eclipse CXC-1250 is a high performance, high availability system specifically designed for central office locations. Featuring dual high speed processors and redundant, hot swappable power and cooling in a 2U rack mountable chassis, service providers can scale the capacity of a single CXC-1250 up to tens of thousands of concurrent calls by adding Covergence MX-1 media accelerator cards to the chassis.

Reliable

The CXC-1250 has been designed to efficiently scale, secure and manage hundreds-of-thousands to million of active endpoints (SIP/UDP, SIP TCP, TLS, RTP, SRTP) with predictable performance and reliability. Featuring dual high speed processors and redundant power and cooling in a 2U rack mountable chassis, the CXC-1250's integrated clustering technology enables customers to scale the performance and reliability up to carrier-class, high availability levels. The CXC-1250 is available in High Availability configurations, with n+1 redundancy for signaling and media traffic.

High-Performance

The Eclipse MX-1 is the CXC-1250's hardware-based media processing card that has been custom designed for environments with heavy real-time media traffic. The MX-1 provides hardware-accelerated media switching, media NAT, SRTP media encryption, media validation, media replication, QOS monitoring, and CODEC translation. The MX-1 enables the enforcement of fine-grained media policies without sacrificing performance or degrading quality of service.

Complete

Packaged as an integrated appliance, the CXC-1250 comes complete with the hardware, hardened operating system, and application and management software needed to secure, control, monitor and extend SIP applications and services.

With Eclipse, service providers can deploy a wide variety of SIP-based applications, including VoIP, instant messaging and multimedia collaboration, to the entire spectrum of customers, from individual consumers to large enterprises.

product features

Security

- Authentication
- Signaling and Media Encryption
- Signaling and Media Validation
- DOS Attack Prevention
- Virus Scanning

Monitoring

- Session Detail Recording
- QOS Detail Recording
- Event Logging and Alerting
- Instant Message Recording
- File Transfer Content Recording
- Voice and Video Recording

Control

- Access Control
- Signaling and Media Control
- QOS Control
- File Transfer Control
- Session Routing Control
- Instant Message Content Control

Interoperability

- SIP-Aware NAT
- Far-End NAT Traversal
- Multi-Vendor Interoperability

System

- Integrated Appliance Packaging
- Compact 2U rack-mountable chassis
- Parallel Stream Processing Architecture with Fast Media Path
- Hardened Operating System
- Integrated Clustering for Scalable Performance and Availability
- Policy-based Management System with Multiple Interfaces (CLI, Web GUI, Java GUI, SNMP, XML)
- Redundant, Hot Swappable Power and Cooling

Eclipse CXC-1250 specifications

Processors	Dual Intel Xeon processors
Memory	4 - 8 GB SDRAM
Storage	72 GB non-redundant hard disk storage
Network Interfaces	2 - 6 standard (unaccelerated) Ethernet ports; up to 4 or 8 accelerated Ethernet ports when equipped with one or two Covergence MX-1 media accelerator cards
Console (External IO) Ports	1 x RJ45 Serial B
Management	Policy-based management system with multiple interfaces (CLI, Web GUI, Java GUI, SNMP, Web Services)
Power Supply	CXC-1250-DC: Two (2) redundant, hot swappable, DC power supplies, 600W, -38V to -75V DC, 20.5A max, separate power connectors
Standards Supported	RFC 3261, RFC 3263, RFC 3265, RFC 3262, RFC 3428, RFC 3856, RFC 2327, RFC3264, RFC 2246, RFC 3550, RFC 1890, RFC 3711, RFC 3266, RFC 2251, RFC 2475, RFC 2865, RFC 2916, RFC 3489, other Standards, RFCs and Internet-Drafts (contact Covergence for detailed information regarding supported standards)
Ambient Temperature	Operating: +5° C to +40° C (+41° F to +104° F); Non-operating: -40° C to 70° C (-104° F to 158° F)
Relative Humidity	95%, non-condensing at temperatures of 23° C (73° F) to 40° C (104° F)
Altitude	0 to 1,800 m (0 to 5,905 ft)
Dimensions	2U, 19" rack-mountable unit; Height: 3.45 inches (87.6 mm), Width: 17.14 inches (435.3 mm), Depth: 20 inches (508 mm); Front clearance: 2 inches (50.8 mm), Side clearance: 1 inches (25.4 mm), Rear clearance: 3.6 inches (92 mm)
Weight	45 lbs (20 kg)
Cooling	Non-redundant fan array with two 80mm x 38mm fans and two 40mm x 28mm fans.
Safety Certifications	UL60950 – CSA 60950 (USA / Canada); EN60950 (Europe); IEC60950 (International); CB Certificate & Report, IEC60950; GS License (Germany); GOST R 50377-92 - License (Russia); CE - Low Voltage Directive 73/23/EEE (Europe); GB4943 - CNCA Certification (China)
Electromagnetic Compatibility (EMC) Class A Compliance	FCC Part 15 / ICES-003 - Emissions (USA / Canada) Verification; CISPR 22 – Emissions; EN55022 - Emissions (Europe); EN55024 - Immunity (Europe); EN61000-3-2 - Harmonics (Europe); EN61000-3-3 - Voltage Flicker (Europe); CE (Community European) – EMC Directive 89/336/EEC (Europe); VCCI Emissions (Japan); AS/NZS 3548 Emissions (Australia / New Zealand); BSMI CNS13438 Emissions (Taiwan); GOST R 29216-91 Emissions (Russia); GOST R 50628-95 Immunity (Russia); RRL MIC Notice No. 1997-41 (EMC) & 1997-42 (EMI) (Korea); GB 9254 - CNCA Certification (China); GB 17625 - (Harmonics) CNCA Certification (China)
Immunity	Verified to comply with EN 50082-1
Notices, Certifications, Registrations and Declarations	UL Certification (USA / Canada); CE Declaration of Conformity (CENELEC Europe); FCC/ ICES-003 Class A Attestation (USA / Canada); VCCI Certification (Japan); C-Tick Declaration of Conformity (Australia); BSMI Certification (Taiwan); GOST R Certification / License (Russia); RRL Certification (Korea); CNCA Certification (China); Ecology Declaration (International)
Regulatory Compliance Markings	cULus Listing Marks (USA/Canada); GS Mark (Germany); CE Mark (Europe); FCC Marking (Class A) USA; EMC Marking (Class A) (Canada); VCCI Marking (Class A) (Japan); BSMI Certification Number & Class A Warning (Taiwan); GOST R Marking (Russia); RRL MIC Mark (Korea); China Compulsory Certification Mark (China)
NEBS/ETSI	Bellcore GR-63, Physical Protection Requirements; Bellcore GR-1089, Electromagnetic Compatibility and Electrical Safety Requirements; ETSI 300 386, Telecommunication Network, Electromagnetic Compatibility; ETSI 300 019, Environmental Conditions and Environmental Tests; ETSI 753, Acoustic Noise

Covergence, Inc.
 One Clock Tower Place
 Second Floor
 Maynard, MA 01754
 T 978 823 5200
 F 978 823 5214
 www.covergence.com