# nCite™ 4000 Session Border Controller

- Leader in Security, Performance, Scale and Redundancy
- Enables the collapsing of multiple applications on a single platform
- Purpose built hardware for low latency and high capacity
- Supports both B2BUA and Stateful Proxy models on the same platform
- Allows service layering architecture for Security, Oversubscription, QoS, Call Routing and IMS integration
- Supports unsurpassed Denial of Service (DoS) and Security for Signaling and RTP
- Provides protocol Interoperability and Media Transparency, Protocol and QoS Interworking Network Mediation

The **nCite**™ high performance Session Border Controllers (SBCs) are designed and tested in conjunction with leading IP Communication carriers and independent third party labs ensuring that products meet or exceed the functional and operational requirements of service providers globally.

Session Border Controllers resolve the peering, latency, quality of service, capacity and control issues preventing widespread commercial deployment of VoIP. The SBC is a transparent addition to existing VoIP networks that enable carriers and service providers to fully realize PSTN parity - resulting in a reduction of costs and increased revenue through the interconnection of VoIP islands. Several current market drivers point to the increasing demand for IP services that can only become a reality with a native IP interconnection. VoIP networks are typically built as “island networks” due to complexities associated with IP interconnection or peering (such as address overlap and security firewalls). The lack of scalability in current VoIP deployments is compounded by the lack of performance parity with the PSTN. Many indicators include the tremendous growth of IP PBXs and the adoption of VoIP and SIP-based products. nCite SBCs support three main application areas for wireline and wireless networks: Residential, Carrier to Carrier Peering and Enterprise.

nCite integrates both signaling and media in a single platform to securely and reliably deliver VoIP applications: voice, video and multimedia sessions across IP network borders. The nCite’s hardware based platform ensures long term performance without forklift upgrades enabling true investment protection.

## nCite 4000 features

### Session Management/Routing

- Multiple B2BUA/Stateful Proxy
- Hosted Firewall and NAT (Traversal)
- Virtual Routing Domains
- H.323/SIP Interworking
- Advanced Routing capabilities
- ENUM/DNS
- Supports fragmented UDP/TCP
- VRRP 802.3ad Link Aggregation

### Security

- DoS Protection per customer
- Protocol Validation and fixup
- Media Firewall and Rogue RTP Detection
- Session-based Bandwidth Policing
- Topology Hiding
- SAC Policy per VPN/Customer
- IPSec, TLS
- Authentication

*Standard pending ITU final approval

AudioCodes

# nCite™ 4000

## Specifications

| Capabilities | |
|---|---|
| Performance | • Up to 21,000 concurrent sessions – scalable to 42,000<br>• 2 Gbps bandwidth – scalable to 4 Gbps<br>• Less than 31 microseconds latency |
| High Availability | • Supports Active/Stand-by or Active/Active configurations<br>• Geographic Redundancy supported across WAN links<br>• Uninterrupted service in the case of device or link failure<br>• Hitless software upgrade (no call or media failure) |
| Management | • Element Management System<br>• API Interface<br>• SNMP v2c<br>• XML<br>• Protocol Logging for Troubleshooting<br>• Dynamic Configuration Changes<br>• Real-Time Monitoring of Sessions and Subscribers<br>• Per Call Jitter and Packet Loss Reporting |
| Operations | • RADIUS Authentication<br>• Detail Records for Sessions, Registrations and Call Failures<br>• Detailed Statistics Logging<br>• Off-Board Logging – Syslog<br>• CALEA |
| **Hardware** | |
| Physical | Dimensions: 5.218" x 17" x 22.23" (13.25cm x 43.18cm x 56.45cm)<br>Weight: (fully loaded) 44 lbs (20 kg)<br>Operation temp: 32F – 104F (0C - 40C)<br>Humidity: 5%-85% non-condensing<br>Heat dissipation: 802.4 BTU/hour |
| Power requirements | Max Power: 235 W<br>**DC**<br>Voltage Range: -36 VDC/ -72 VDC<br>Maximum Current:<br>4.9 A @ -48 VDC<br>3.9 A @ -60 VDC<br>**AC**<br>Voltage Range: 90 VAC/264 VAC, 47 Hz/63 Hz<br>Current:<br>2.0 A @ 120 VAC<br>1.0 A @ 230 VAC |

## Applications

- Hosted Residential Services
- Carrier to Carrier VoIP Peering
- Hosted Enterprise Services
- SIP H.323 Interworking Gateway

## About AudioCodes

AudioCodes Ltd. (NASDAQ: AUDC) provides innovative, reliable and cost-effective Voice over Packet (VOP) technology, Voice Network products, and applications to OEMs, Network Equipment Providers, Service Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway and media processing technologies (based on VoIPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture) and Session Border Controllers (SBCs). The company is a market leader in product development, focused on VoIP Media Gateway, Media Server and SBC technologies and network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past few years and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. The Company is a VoIP technology leader focused on quality, having recently received a number one ranking from ETSI for outstanding voice quality in its media gateways and media servers. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, enhanced voice services and video markets. AudioCodes enabling technology products include VoIP and CTI communication blades, VoIP media gateway processors and modules, and CPE devices. AudioCodes' headquarters and R&D facilities are located in Israel with an R&D extension in the U.S. Other AudioCodes' offices are located in Europe, the Far East, and Latin America.

**International Headquarters**
1 Hayarden Street,
Airport City
Lod 70151, Israel
Tel: +972-3-976-4000
Fax: +972-3-976-4040

**US Headquarters**
2099 Gateway Place, Suite 500
San Jose, CA 95110
Tel: +1-408-441-1175
Fax: +1-408-451-9520

**Contact us: www.audiocodes.com/info**
**Website: www.audiocodes.com**



**Ref.** # LTRM-50014 05/07 V.3

Your Gateway to VoIP