

## nCite™ DE

High Performance Session Controller 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.



### Security

- Simultaneous B2BUA architecture and Stateful Proxy architecture
  - Hosted Firewall/NAT
  - DoS Mitigation/Intrusion Prevention
    - ◆ Transaction Rate Limiting
    - ◆ Source IP Address Spoof Prevention
    - ◆ Detect and Block Header Overflow Attacks
    - ◆ Drop/Detect Malformed Packets
    - ◆ SIP Method Throttling
  - Rogue RTP Detection/Quarantine
  - Theft of Service Protection
  - VoIP Registration Filters
  - Per Flow Bandwidth Policing
  - Admission Control based on Utilized Bandwidth and Number of Calls
  - Header Stripping
  - Codec Policing

### Network Mediation

- Basic Protocol Interoperability and Media Transparency
  - ◆ SIP SIP
  - ◆ SIP T SIP T
- Protocol Interworking
  - ◆ SIP H.323
  - ◆ IPv4 IPv6
- QoS Interworking
  - ◆ DiffServ MPLS

### Law Enforcement

- Intercept Access Points:
  - ◆ Call Content Connection (CCC) for delivery of call content
  - ◆ Call Data Connection (CDC) for sending messages which report call identifying information
- Supports Packet Cable Electronic Surveillance Protocol Routing
- Method-based Routing
- Least-Cost Routing
- Load Balancing (Hunt Group and Weighted Round Robin)
- Time-of-Day Routing
- Digit Matching/Manipulation
- Overlapping IP Address/VLAN Management
- Virtual Routing Domains

### Reliability

- Uninterrupted service in the case of a device or link failure NO call loss
- Sub-second failover for link, card, and software failures
- Supports active stand-by or load sharing configurations
- Live software upgrade (no call or media failure)

### High Performance

- Performance less than 31 microseconds latency.
- Capacity up to 42,000 concurrent sessions, 5 Gbps non-blocking throughput

### Management

nCite GUI-based EMS used to monitor, provision, and maintain nCite systems, defined customers and traffic policies — CLI, EMS, and SNMP interfaces for ease of integration with back-office systems.

- Built-in Protocol Debugger
- Hitless Software Upgrades
- Failover Without Call Loss
- Downstream Failure Detection
- Dynamic Configuration Changes
- Roll-Back Policy Management
- Real Time Monitor
- Detailed Statistics Logging
- Session Detail Records
- Per Call Jitter & Packet Loss Reporting

## nCite™ SE



A scalable Session Controller with same feature set as nCite DE delivered in a smaller configuration.

**Performance** – less than 31 microseconds latency.

**Capacity** – up to 21,000 concurrent sessions, 2 Gbps bandwidth

## nCite™ SM



A single nCite Session Manager and up to ten nCite Session Controllers (DEs, SEs or a combination), performing as one high capacity session controller when needed in large volume applications for carrier peering and residential VoIP.

**Performance** – up to 2000 call set-ups per second

**Capacity** – up to 600,000 simultaneous sessions, 1.5 million FW/NAT traversals

**Management** – handled via the nCite EMS and delivers a single customer-facing IP address

### Physical Dimensions

|                       | DE   | SE/SM  |
|-----------------------|--|--|
| Dimensions            | 21"x17"x23"<br>(53.34cm x 43.18cm x 58.42cm) | 5.218"x17"x22.23"<br>(13.25cm x 43.18cm x 56.45cm) |
| Weight (fully loaded) | 160 lbs (72.5 kg)                            | 60 lbs (27.22 kg)                                  |
| Operation temp        | 32F - 104 F (0C - 40C)                       | 32F - 104 F (0C - 40C)                             |
| Humidity              | 5%-85% non-condensing                        | 5%-85% non-condensing                              |
| Heat dissipation      | 2890 BTU/hr                                  | 560 BTU/hour                                       |
| Max Power             | 450 W  | 165 W  |

### Power requirements

|         | DE                                 | SE/SM                              |
|---------|------------------------------------|------------------------------------|
| DC      |                                    |                                    |
| Voltage | -40V / -60V                        | -40 / -60 VDC                      |
| Current | 11.2A @ -40 VDC<br>9.4 A @ -60 VDC | 3.5 A @ -40 VDC<br>2.8 A @ -60 VDC |
| AC      |                                    |                                    |
| Voltage | 100 VAC - 240 VAC                  | 100 VAC - 240 VAC                  |
| Current | 5A @ 100 VAC<br>1.9A @ 240 VAC     | 1.7 A @ 100 VAC<br>0.7 A @ 240 VAC |