

S|L|I|C|E|I|P[®]

POWERED BY
TRANSip

An advanced IP communications platform



Future-proof network transformation

- ✓ A complete Class 4/5 IP softswitch
- ✓ IMS interoperability via industry-standard SIP-based architecture
- ✓ Up to 3,000 IP subscribers per unit
- ✓ VoIP security: TLS/SRTP/SSL

an advanced IP communications platform

The SLICE IP is an advanced Carrier-Class 4/5 softswitch powered by TRANSip®, REDCOM's IP telephony technology suite. TRANSip offers a variety of next-generation network functions and integrates key IP Multimedia Subsystem (IMS) elements, delivering call management functionality for IP subscribers. TRANSip supports all the features needed on a pure IP network, such as IP Centrex, bandwidth management, conferencing and SIP trunking.



reduce OpEx & increase revenue



REDCOM's SLICE IP allows service providers to deploy flexible networks that can adapt to increasing end-user demands and competitive industry dynamics at a lower operating cost. The SLICE IP's compact, energy-efficient design consumes 90% less power than legacy switches, saving money every month. Furthermore, service providers can decrease costs and grow revenues by using broadband to deliver new services and features to subscribers.

the lowest total cost of ownership



Don't burn your OpEx budget with the recurring costs of multi-year maintenance contracts. SLICE IP owners enjoy NO scheduled maintenance, NO annual service contracts, and NO forced upgrades. Carriers realize a substantial reduction in OpEx when replacing legacy exchanges. Considering that recurring maintenance and service contracts typically double the price of most softswitches within four or five years, it's comforting to know that lifetime costs for the SLICE IP won't be much more than the initial purchase.

designed with the future in mind



The SLICE IP's wide range of features and flexibility allow for seamless network transformation. The SLICE IP is compatible with standards-based SIP phones, eliminating any risk of being trapped by proprietary VoIP devices or protocols. Finally, the SLICE IP looks to the future with full support for dual-stack IPv4/IPv6.

remote/access solutions



Reduce power costs and leverage broadband technology by phasing out aging remote/RDT access in favor of a Multi-Service Access Node (MSAN) or Broadband Loop Carrier (BLC) via GR-303, SIP or MGCP/NCS. Traditional analog telephones can also be individually registered to the SLICE IP via Analog Telephone Adapters (ATA).

network management made easy



REDCOM's Maintenance and Administration User Interface (MAUI) is an easy-to-use GUI network manager. MAUI's intuitive design allows you to navigate through the program using graphical screens and commands. Everything you need to know about your SLICE IP system is just a mouse-click away.

SIP trunking made easy



SIP trunking with a REDCOM SLICE IP is a powerful way to reduce operating expenses and grow revenues. SIP trunking allows service providers to leverage their existing IP data networks to also provide packet voice services. Carriers can save money by optimizing bandwidth usage with compression. Each SLICE IP supports up to 1024 simultaneous SIP sessions.

application development API



“Killer Apps” may be an outdated term, but the business is still alive. Create custom softswitch and media gateway applications with REDCOM’s Application Programming Interface (API). The SLICE IP is the perfect platform for carrier-class prototyping and developing unique applications to drive new revenue sources.

add revenue with IP Centrex services



The SLICE IP allows service providers to deploy IP Centrex services on their network as an alternative to customer-owned PABXs. Service providers can generate new revenue by offering their business customers all the benefits of PBX features without the expense of traditional PBX systems. This is a win-win scenario for both telecom service providers and business customers.

secure & encrypted communications



TRANSip, REDCOM’s VoIP technology suite, offers an additional layer of security for VoIP traffic with the ability to encrypt calls. Secure Real-Time Transport Protocol (SRTP) and Transport Layer Security (TLS) are available to encrypt the SIP call signaling and client authentication to ensure confidential communications.

scalable & flexible design

The SLICE IP is scalable and flexible for future growth. Up to three SLICE IP systems can be stacked to operate as a single system for up to 9,000 IP subscribers per node. The SLICE IP can also stack with REDCOM’s SLICE® 2100™ when access to E1/T1 and legacy protocols and interfaces is needed.

The SLICE IP is also an affordable entry-level solution that enables service providers to start with a phased approach to IP when it makes sense, avoiding a costly forklift replacement.

Together, two SLICE IP units and one SLICE 2100 are only 3U high while consuming far less power than a legacy switch. Features include:

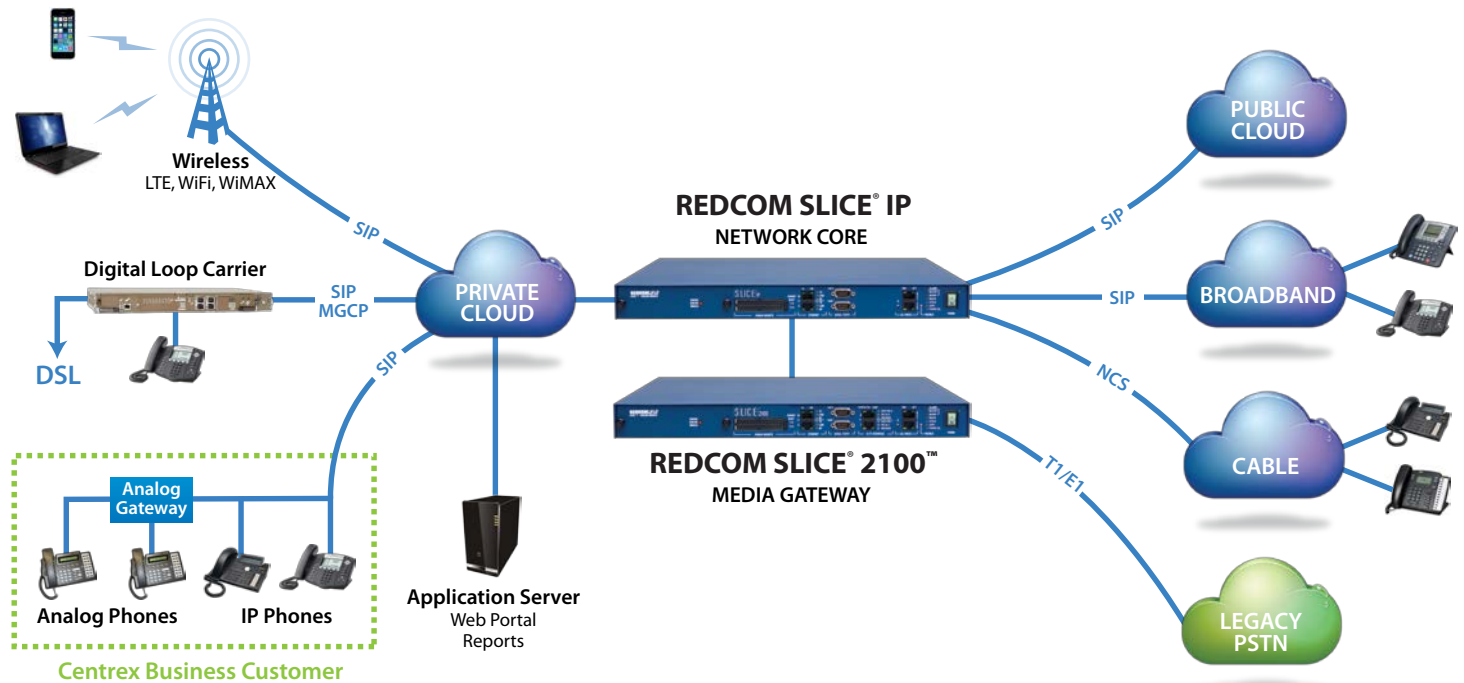
- ✓ 8,000 IP subscriber licenses
- ✓ 6,000 IP Trunks
- ✓ 10 T1/E1 Spans
- ✓ Media Gateway
- ✓ Call Manager



Shown to scale



REDCOM SLICE IP Next Generation Network



specifications

PHYSICAL SPECIFICATIONS

- Width: 19 in rack mount; 17.5 in / 44.5 cm
- Height: 1U 1.75 in / 4.4 cm
- Depth: 17.5 in / 45.5 cm
- Weight: 13 lbs. / 5.9 kg
- Power:
 - -42.5 to -56.5 VDC
 - Maximum current draw: 0.8 A
 - 100/220 VAC, 50-60 Hz (external rectifier)
- Environment
 - Operating temperatures: 32-122 °F / 0-50 °C ambient
 - Operating humidity: 5%-90% (non-condensing)

SYSTEM ARCHITECTURE

- Distributed Control
- Carrier-Class Reliability: 99.999% ("five nines")
- Two 10/100 Ethernet Ports
- Serial Interface (Dual RS-232/9-Pin)
- 48-Hour Protected RAM
- Stackable up to 3 units (up to 9,000 IP subscribers)

SYSTEM FEATURES

- Administrative Package
- Call Records SMDR/CDR/LAMA
 - Bellcore AMA Format (BAF)

- Emergency Services (911)
- Least Cost Routing
- Local Number Portability (LNP)*
- Multiple Home Exchanges
- Percentage Trunking
- REDCOM ClusterNet™: single system geographic distribution
- Three PIC Equal Access*
- Toll Restriction
- User Defined Announcements
- Voice Mail System Interface*
- Web Portal for Subscribers, Centrex and Administration

NETWORK MANAGEMENT

- E-Mail: maintenance notes & traffic usage reports to an e-mail address
- SNMP support for alarms and system monitoring

CLASS™ & BILLABLE FEATURES

- CLASS Features
 - Automatic Call Distributor (ACD)*
 - Automated Call Processing (ACP)
 - Broadcast Ringing
 - Caller ID (Name and Number Delivery)
 - Conferences
 - Conference Control
 - Preset, Meet-Me, Progressive
 - Firebar

- Customer-Originated Call Trace
- Hotlines
- IP Centrex
- Single Number Services (Find Me)

ACCESS SOLUTIONS

- Broadband Loop Carrier (BLC)
- MSAN
- SIP
- GR-303 & V5.2*

REDCOM TRANSIP® IP TECHNOLOGY SUITE

- Up to 3,000 registered IP subscribers per unit
- SIP Call Controller/Call Manager
- SIP Trunking
- DHCP client
- DNS client
- Dual Stack IP: IPv4, IPv6
- Audio Streaming RTP (RFCs 3550, 3551, 3389)
- Comfort Noise Generation
- Echo Cancellation: G.165, G.168 (up to 128ms)
- Fax over IP (T.38) and Modem over IP (V.150.1)*
- IMS Compatible
- IP Bandwidth Management
- MGCP/NCS Line Support (Packetcable 1.5)

- NTP
- QoS: IP Differentiated Services (DiffServ) marking
- RFC 3261, 3326, 4028
- SDP Manipulation
- Silence Suppression
- SIP support for CLASS lineside features
- System CRON Timers
- Telephony Tones: RFC 4733
- VLAN Tagging
- VoIP (SIP standards-based)

CODECS

- G.711A&μ (64kbps PCM)
- G.722.1 & G.722.2 (HD Voice)
- G.723.1H&L
- G.726 (16, 24, 32, 40kbps ADPCM)
- G.729A&B (8kbps CS-ACELP)
- iLBC
- RFC4040 (64 kbps)

SECURITY

- Distributed Control
- PIN Number Authorization
- Priority Override
- RADIUS Authentication
- SRTP
- TLS
- User Level Security

Some features are optional. Please contact REDCOM for a more detailed description of product features and capabilities.

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* Requires stacking with a REDCOM SLICE 2100.

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