

REDCOM SLICE® 2100™ Micro

POWERED BY
TRANSip®

- ▶ *Integrated SIP Call Manager & Media Gateway*
- ▶ *Small size and light weight*
- ▶ *Manages Up to 2,000 registered SIP subscribers*
- ▶ *Compatible with industry-standard SIP phones*
- ▶ *Configurable conferences with over 60 participants*
- ▶ *VoIP security: TLS/SRTP/SSL*
- ▶ *IPv4/IPv6 Dual Stack*



TRANSPORTABLE COMMUNICATIONS REDEFINED

The SLICE 2100 Micro packs the communications power of REDCOM's SLICE 2100 into a box as small as a hardcover book. Powered by REDCOM's TRANSip® IP technology suite, the SLICE 2100 Micro delivers maximum interoperability with an integrated Media Gateway, Media Gateway Controller, SIP Call Controller, and legacy support. The SLICE 2100 Micro features a simple integrated design that reduces setup to plug-and-play installation. The entire unit is powered by a regular laptop power supply.

APPLICATIONS

Emergency Response. Weighing in at less than five pounds, the SLICE 2100 Micro is ideal for first responders such as police and firefighters who require an interoperable and highly portable communications node. The SLICE 2100 Micro can also be deployed quickly to disaster sites to restore essential communications in minutes.

Mobile Command Centers. The SLICE 2100 Micro can serve as the communications hub on mobile command trailers, delivering VoIP service for up to 2,000 subscribers, along with support for SIP trunks, and T1/E1 trunks. Connect it to a portable GSM box to expand access to cellular subscribers.

Mining & Exploration. The SLICE 2100 Micro is the perfect communications solution for remote and rugged sites such as mining camps and oil rigs where space is at a premium. It can easily be integrated with a satellite modem for secure communications back to a corporate office or headquarters.

EXTENSIVE CONFERENCING CAPABILITIES

The SLICE 2100 Micro supports several conferencing styles, including "progressive" (participants added one at a time), "meet-me" (participants meet at a specified time), "preset" (conference controller initiates the event, adding participants as they answer) or any combination of these three methods.

SECURE & ENCRYPTED COMMUNICATIONS

TRANSip 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.

DESIGNED WITH THE FUTURE IN MIND

The SLICE 2100 Micro's wide range of features and flexibility allow for seamless network transformation. The SLICE 2100 Micro is compatible with standards-based SIP phones, eliminating any risk of being trapped by proprietary VoIP devices or protocols. Finally, the SLICE 2100 Micro looks to the future with full support for dual-stack IPv4/IPv6.

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PROUDLY DESIGNED, BUILT
& SERVICED IN THE USA

REDCOM®

REDCOM SLICE® 2100 Micro V5.0 Specifications

PRIMARY CONFIGURATIONS

- Class 5 End Office
- Class 4 Tandem/Transit Exchange
- Media Gateway
- International/IP Gateway
- Call Manager

PHYSICAL SPECIFICATIONS

- Width: 11.5 in / 29.2 cm
- Height: 1U 1.75 in / 4.4 cm
- Depth: 7 in / 17.8 cm
- Weight: Less than 5 lbs. / 2.3 kg

POWER

- 12–24 VDC @ 18.5 watts
- External AC Adapter

SYSTEM ARCHITECTURE

- Carrier-Class Reliability: 99.999% ("five nines")
- Two 10/100 Ethernet Ports
- Two E1/T1 Spans
 - ◆ Software-selectable per span as E1/T1
 - ◆ 100 Ω T1 interface or 120 Ω E1 interface via an RJ-45 connector
 - ◆ Independent alarm and loopback indicators for each span
 - ◆ Software controlled clock synchronization
 - ◆ Can be provisioned as a fractional E1/T1
 - ◆ Support for Primary Rate ISDN
 - 4ESS & 5ESS Protocol
 - National ISDN-1
 - DMS100
 - Euro ISDN
- 6 Digital Signal Processors (DSPs) configurable for use with TRANSip, DTMF, MF/R1, MFC R2, SS7 COT
- Two Test Line Ports
- Serial Interface (RS-232/9-Pin)
- PCMCIA Card Slot
- 48-Hour Protected RAM
- Traffic: 36 ccs (1 Erlang) per Port (non-blocking)

SYSTEM FEATURES

- Administrative Package
- Call Records SMDR/CDR/LAMA
- Emergency Services (911)
- Least Cost Routing
- Local Number Portability (LNP)
- Multiple Home Exchanges
- Percentage Trunking
- REDCOM ClusterNet™: host/remote for integrated network operation
- Three PIC Equal Access
- Toll Restriction
- User Defined Announcements
- Voice Mail System Interface

NETWORK MANAGEMENT

- E-Mail: maintenance notes and traffic usage reports to any 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)
- Centrex (IP and TDM)
 - ◆ Conference Control
 - ◆ Preset, Meet-Me, Progressive
 - ◆ Optional Password Protection
 - ◆ Loudest Party Talker
 - ◆ Firebar
- Customer-Originated Call Trace
- Hotlines
- Single Number Services (Find Me)

ACCESS SOLUTIONS

- Broadband Loop Carrier (BLC)
- FXO/FXS
- GR-303
- MSAN
- SIP
- V5.2

SIGNALING & PROTOCOLS

- A-Law/μ-255 Law PCM Conversion
- DTMF & RFC 2833
- FXO/FXS
- GR-303
- ISDN PRI (4ESS, 5ESS, NI1, DMS100, & Euro)
- MF/R1, FG-C&D
- MFC R2
- SIP RFC 3261
- SS7
 - ◆ 800 dips via TCAP
 - ◆ ANSI SS7 & ITU C7
 - ◆ LNP via TCAP
 - ◆ TCAP CNAME
- T1/E1
- V5.2

REDCOM TRANSIP® IP TECHNOLOGY SUITE

- Up to 2,000 registered IP subscribers per unit
- SIP Call Controller/Call Manager
- SIP Trunking
- Dual Stack IP (IPv4, IPv6)
- Audio Streaming RTP (RFCs 3550, 3551, 3389)
- Comfort Noise Generation
- DHCP client
- DNS client
- 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
- Media Gateway
- MGCP/NCS Line Support (Packetcable 1.5)
- Network Time Protocol (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.723.1H&L
- G.726 (16, 24, 32, 40kbps ADPCM)
- G.729A&B (8kbps CS-ACELP)
- iLBC
- RFC4040 (64 kbps)
- Fax over IP: T.38, Media Gateway Conversion (MGC) & Auto
- Modem over IP: V.150.1

COMPLIANCE

- CALEA: TIA J-STD-025A and J-STD-025B
- Electromagnetic compatibility: FCC Part 15 Class A
- Industry Canada CS-03
- TIA-968-A

SECURITY

- Lawful Intercept (CALEA): US J-STD-025A & US J-STD-025B
- PIN Number Authorization
- Priority Override
- RADIUS Authentication
- SRTP
- TLS
- User Level Security

APPLICATION DEVELOPMENT

- Application Programming Interface (API)
- Computer Telephony Integration (CTI)
- External Database: MySQL
- Host Control Interface

