

REDCOM SLICE® for Government & Defense

Multi-function, interoperable voice switch in a slim 1U platform

- ▶ Completely integrated single unit system
- ▶ Light weight and easily transportable
- ▶ E&M/SF Trunks, GSRD/LSRD Trunks & Magneto Lines
- ▶ Up to 6 E1/T1 digital spans
- ▶ MLPP & ANSI 619a support



OVERVIEW

SLICE is REDCOM's self-contained, fully integrated switching system. This highly reliable and versatile system is proven in both strategic and tactical applications with the United States Armed Forces. A single SLICE weighs less than 15 pounds (6.5 kg) and can easily be installed in standard 19 inch (48 cm) equipment racks or deployed in vehicles or transit cases.

INTERCHANGEABLE MODULES

The SLICE features two rear-accessible positions for your choice of interface modules, allowing communicators to upgrade and configure each SLICE to meet their specific needs. The modules include the following:

- **Line Module:** Features 12 loop lines and 2 ISDN BRI-S lines.
- **Line/Trunk Module:** Features 10 loop or magneto lines, 2 ISDN BRI-S lines, 2 E&M/SF trunks, and 2 GSRD/LSRD trunks.
- **Secure Device Module:** Enables the SLICE to act as a SCIP gateway supporting REDCOM's Advanced Gateway Application for secure communications between any network, tactical or strategic.
- **Radio Interface Module:** Provides an interface to two-way radios allowing the radio user to access most of the SLICE features normally accessible to a standard station user. The Radio Interface supports two circuits capable of interfacing to Push-To-Talk (PTT), VOX, secure and non-secure military radios.
- **Multi-E1/T1 Module:** Adds 4 E1/T1 spans to the SLICE, for a total of 6 E1/T1 trunks per unit.

ENHANCE YOUR COMMAND & CONTROL CAPABILITY WITH CLUSTERNET™ TECHNOLOGY

REDCOM's ClusterNet technology allows multiple SLICE units to be seamlessly interconnected and function as one integrated system. The SLICE may also be clustered with a REDCOM HDX, SLICE 2100 or SLICE IP for additional features.

HIGHLIGHTED FEATURES

- **MLPP & 619a Support:** Provides end-to-end warfighter communications and ensures priority calls "tandem" and are delivered to the end location.
- **Secure Communications:** Using the Secure Device Module, the SLICE can connect with up to 4 SWT voice encryptors (made by General Dynamics C4 Systems). SWT encryptors allow any SLICE line or trunk port to conduct secure voice communications with any SCIP-capable terminal.
- **Secure Conferencing:** The SLICE supports several conferencing styles, including "progressive" (participants added one at a time), "meet-me" (participants meet at a valid number at a specified time), and "preset" (conference controller initiates the event, adding participants as they answer).
- **Field Deployable:** Housed in REDCOM's rugged and transportable Tactical Communications Package (TCP), the SLICE can be quickly deployed to tent cities, communications shelters, trucks and Humvees. The SLICE TCP meets stringent DoD specifications for impact and vibration, and can withstand the harsh conditions of airlift, seaborne and off-road transportation. The SLICE TCP integrates multiple communications elements and encryption devices, and can be fully customized to meet the specific needs of warfighters and DoD agencies.

Talk to the tactical & strategic communications experts at REDCOM

For more information about how REDCOM can create a reliable solution for you, call us today at +1.585.924.6500, or e-mail sales@redcom.com

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REDCOM SLICE[®] Command & Control V4.0 Features & Specifications

PHYSICAL SPECIFICATIONS

- Width: 19 in rack mount; 17.5 in / 44.5 cm
- Height: 1U 1.75 in / 4.4 cm
- Depth: 17 in / 43 cm
- Weight: 15 lbs. / 6.5 kg
- Mounting: front & center mount brackets included (optional wall mount kit available)
- Power: -48 VDC; 2.1 amps
- Environment
 - ◆ 32°-122° F (0°-50° C) ambient
 - ◆ 5%-90% relative humidity (non-condensing)

HARDWARE FEATURES

- 10/100 Ethernet Port
- Serial Interface (Dual RS-232/9-Pin)
- 2 Bays for Field-Replaceable Modules
- 48-Hour Protected RAM
- Dual SRAM PCMCIA Card Slots
 - ◆ Save and Restore Capabilities
 - ◆ Field Updates and Upgrades of Software Load and Database
- 2 E1/T1 Spans:
 - ◆ Can be provisioned as a fractional E1/T1
 - ◆ 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
 - ◆ 3 general-purpose Digital Signal Processors (DSPs): DTMF, MF/R1, MFC R2
 - ◆ Support for Primary Rate ISDN
 - 4ESS & 5ESS Protocol
 - National ISDN-1
 - DMS100
 - Euro ISDN
- Hot-swappable Cooling Module
- Traffic: 36 ccs (1 Erlang) per port (non-blocking)

CLASSSM FEATURES

- Anonymous Call Rejection
- Automatic Callback
- Call Coverage
- Call Forward Override Dial Code
- Call Hold
- Call Park
- Call Pickup
- Call Return
- Call Waiting and Camp-On
- Caller ID (Name and Number Delivery)
- Calling Number Delivery Blocking
- Change Number Announcements
- Customer-Originated Call Trace
- Distinctive Ringing/ Call Waiting Tone
- Incoming Caller ID
- Last Number Called/Saved Redial
- Message Waiting Services
- Remote Call Forwarding (Call Following)
- Selective Call Forwarding/ Acceptance/ Rejection
- Setup menus for CLASS Announcements
- Transfer with Consultation Hold

SIGNALING & PROTOCOLS

- A-Law/μ-255 Law PCM Conversion
- Busy Trunk Auto-Callback
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- DTMF Tones & Dial Pulse Operation
- Euro-ISDN
- Fast Dial on Trunks
- Flexible R2 Backward Digit Mapping Tables
- FXO/FXS Support
- Individual Trunk Selection
- MF Register Signaling
- Off-Hook Service on Trunk Groups
- Primary Rate Interface (PRI)
- R2 Interregister Signaling
- R2 Line Signaling
- Tandem Trunk Calls
- Tandem R2 Interregister Signaling
- Trunk-to-Trunk Answer Return Class Mark
- Trunk-to-Trunk Connection Control

OPERATIONS, ADMINISTRATION & MAINTENANCE

- Account Codes
 - ◆ Allows Identifying Digit Strings to be appended to Call Records
- Administrative Package
 - ◆ User-Friendly Administration Using PC or VT-100 Terminal
 - ◆ Open Database Access
 - ◆ Editing, Storage of Unactivated Changes
- Automatic Call Distributor (ACD)
- Automatic Callback
- Automated Call Processing (ACP)
- Basic Rate Interface (BRI S)
- Broadcast Ringing
- Call Progress Announcements
- Centrex
- Class of Service Groups
- Computer Telephony Integration (CTI)
- Conferences
 - ◆ Preset, Meet-Me, Progressive
 - ◆ Conference Chaining
 - ◆ Optional Password Protection
 - ◆ Loudest Party Talker
- Digital Pad Control
- Direct Inward System Access
- Digital Announcements
- E-Mail Support
 - ◆ Database Files Can Be E-mailed To or From the Switch
 - ◆ Send Maintenance Notes and Traffic Dumps to Any E-mail Address
 - ◆ Users on the Switch Can Send/Receive E-mail Separated by User Name
- Emergency Call Routing
- Emergency Services (911)
- External Database: MySQL
- Flexible System Timers
- Flexible Tone Generation for international call progress tones
- Flexible Tone Tables
- Flexible Dialing Translator
- Group Maintenance
- Hidden Dial Codes
- Host Control Interface
- Hotlines
- Issue Test Commands to Ports
- MLPP & 619a
- Multi-Level Users
 - ◆ Allows Levels of Access and Control for Assigned Users to Perform System Administration
- Multiple Home Exchanges
- Multiple Stations (Directory Numbers and Classes of Service) on a Single Line
- Nailed Up Connections
- Note Filtering
- Note Logging Facility
- Off-Hook Service
- Pad Switching
- Percentage Trunking
- PIN Number Authorization
- Prerecorded Announcements
- Priority Call Indications
- Priority Override (Conferenced/Non-Conferenced)
- REDCOM BASIC Programming Language
- REDCOM Shell (RSH) Operating System
 - ◆ File Manipulation Commands
 - ◆ Directory Structure Commands
 - ◆ Text File Import and Export
 - ◆ Audit Files
 - ◆ Script Files, Macros
 - ◆ On-Line Help
- Remote Administration and Diagnostics
- Remote Station Logon
- Route Tables with Access Codes
 - ◆ Alternate Routes
 - ◆ Digit Manipulation
- Selective Station Disable
- SNMP Monitoring
- Station Message Detail Recording (SMDR)
- Speed Dialing (System & User-Definable)
- System CRON Timers
- Three PIC Equal Access
- Time-of-Day Database Changes (Least Cost Routing)
- Toll Restriction
- User Defined Announcements
- User Jobs
 - ◆ Administration (ADM)
 - ◆ Database Generation (GEN)
 - ◆ Database Upload/Download (XLD)
 - ◆ Maintenance (MANT)
 - ◆ Notes (NOTE)
 - ◆ Operation, Maintenance and Administration Part (OMAP)
 - ◆ Traffic Usage Report (TDMP)
- User Level Security
- User Recorded Announcements
- Universal Numbering Plan
- View
 - ◆ Live/Historical Notes
 - ◆ Circuit/Hardware Data
- Voice Mail System Interface
- Wake Up Services
- Warm Line Service

SECURE INTEROPERABILITY

- SCIP
- GSM Type 1
- Iridium Type 1
- LTU/TIA
- NBS (Narrowband STE)
- Secure Dial
- Secure Tactical Radios
- STE
- SWT
- SWT-R
- TIA-TED (Red T1)
- Fourth Column DTMF Digits (Accommodates Autovon & MLPP Override)
- Autovon

ANCILLARY PRODUCTS

- Link Command System (LCS) – a GUI call management software package
- Maintenance and Administration User Interface (MAUI)
- Tactical Traffic Metering Package (TTMP)

OPTIONAL FEATURES

- Call Monitoring: US J-STD-025A & US J-STD-025B
- REDCOM ClusterNet[™]
 - ◆ Voice and Control Paths Between Independent Sites/Switches
 - ◆ Host/Remote for Integrated Network Operation

OPTIONAL MODULES

- Subscriber Module
- Analog Trunk Module
- Multi-E1/T1 Module
- Radio Interface Module
- Secure Device Module

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