

REDCOM HDX-C V4.0 Features & Specifications

PHYSICAL SPECIFICATIONS

- Width: 19 in rack mount / 48 cm
- Height: 8.75 in / 22 cm
- Depth: 17 in / 44 cm
- Cable tray: 3.5 in high / 9 cm
- Power: -48 VDC; 100/120/240 VAC, 50-60 Hz
- Environment:
 - ◆ Operating temperatures: 32-122 °F / 0-50 °C ambient
 - ◆ Operating humidity: 5%-95% (non-condensing)
 - ◆ Operating elevation: Tested at 10,000 ft (3048 m)

SYSTEM ARCHITECTURE

- Multiprocessor distributed processing
- Optional redundant control per shelf
- Computer Telephony Integration (CTI)
- Hot-swappable interfaces and processor boards
- Max. 4,096 ports (non-blocking) per stack
- TSI Board
 - ◆ New MA0755 supports up to 2,048 ports per shelf
 - ◆ MA0648 supports up to 512 ports per shelf

TRANSIP® IP TECHNOLOGY SUITE

- Up to 3,000 registered IP subscribers per shelf
- AS-SIP
- IP Bandwidth Management
- IP Trunking
- Legacy Interface Support
- Media Gateway
- QoS: IP Differentiated Services (DiffServ) marking
- Session Description Protocol (SDP) Manipulation
- Silence Suppression
- SIP Call Controller/Call Manager
- SIP-Based Line Features:
 - ◆ 3 Way Calling - Added
 - ◆ 3 Way Calling - Joins
 - ◆ Attended Transfer
 - ◆ Automatic Redial
 - ◆ Call Forward All
 - ◆ Call Forward Busy
 - ◆ Call Forward No Answer
 - ◆ Call Hold
 - ◆ Call Management In
 - ◆ Call Management Out
 - ◆ Call Park
 - ◆ Call Pickup

- ◆ Click to Dial
- ◆ Consultation Hold
- ◆ Find Me
- ◆ Music on Hold
- ◆ Unattended Transfer
- SRTP
- Telephony Tones: RFC 4733
- Voice Compression: Codecs G.711A&μ, G.723.1H&L, G.726 (16, 24, 32, 40 kb/s), G.729A&B
- VoIP
- VoIP Phones Support Legacy Features

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
- ANSI SS7 & ITU C7
 - ◆ Up to 4 SS7 links or 2 pairs of links
- Busy Trunk Auto-Callback
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- DTMF & RFC 2833
- E&M
- Euro-ISDN
- Fast Dial on Trunks
- Flexible R2 Backward Digit Mapping Tables
- FXO/FXS Support

- GSRD/LSRD
- Individual Trunk Selection
- ISDN PRI (4ESS, 5ESS, NI1, DMS100, DSN & Euro)
- ISDN BRI (5ESS, NI1 & Euro)
- LDAP
- MF/R1
- Radio Interface (Military and Civilian Radios)
- Off-Hook Service on Trunk Groups
- Primary Rate Interface (PRI)
- R2 Interregister Signaling
- R2 Line Signaling
- SIP RFC 3261
- 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)
- Backup Station Numbers
- Basic Rate Interface (BRI S, T & U)
- Broadcast Ringing
- Call Progress Announcements
- Centrex (IP and TDM)
- Certificates
 - ◆ SSL 3.0, TLS 1.0 through 1.2
 - ◆ X.509 Certificates
 - ◆ PKI (Public Key Infrastructure)
 - ◆ PKCS #7, #8, #12 (Certificate & Key file formats)
 - ◆ OCSP (Online Certificate Status Protocol)
 - ◆ Trust Points
 - ◆ Algorithms: RSA, AES, 3DES
- Class of Service Groups
- Commercial Cost Avoidance (CCA)
- Conferences
 - ◆ Preset, Meet-Me, Progressive
 - ◆ Conference Chaining
 - ◆ Optional Password Protection
- ◆ Loudest Party Talker
- Digital Pad Control
- Direct Inward System Access
- Digital Announcements
- Domain Name System (DNS)
- Dual Stack IP (IPv4, IPv6)
- Dynamic Host Configuration Protocol (DHCP) client
- 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
- 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
- Network Time Protocol (NTP)
- 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 ClusterNet™
 - ◆ Voice and Control Paths Between Independent Sites/Switches
 - ◆ Host/Remote for Integrated Network Operation

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PROUDLY DESIGNED, BUILT & SERVICED IN THE USA

REDCOM®

- 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
- Secure Telnet (SSL/TLS)
- 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
- Warning Tone Trunk (WTT)

SECURE INTEROPERABILITY

- SCIP
- GSM Type 1
- Iridium Type 1
- KY-68/R & KY-68 Long Local
- LTU/TIA
- NBS (Narrowband STE)
- Secure Dial
- Secure Tactical Radios
- STE
- STE-R
- SWT
- SWT-R
- TIA-TED (Red T1)
- Fourth Column DTMF Digits (Accommodates Autovon & MLPP Override)
- Autovon

WIRELESS CAPABILITIES

- Federal & Civilian Radios
- Radio Line Interface (VOX)
- Radio Trunk Interface (PTT)
- Tactical & Trunked Radios
- Wireless Support (Selected Technologies)

ANCILLARY PRODUCTS

- Link Command System (LCS)
- Maintenance and Administration User Interface (MAUI)

OPTIONAL FEATURES

- 800 dips via SS7
- Fax over IP (T.38) and Modem over IP (V.150.1)
- GR-303
- Call Monitoring (CALEA): US J-STD-025A & US J-STD-025B
- Local Number Portability
- SS7 Signaling
- TCAP CNAME
- V5.2

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