

REDCOM HDX V5.1 Features & Specifications

PRIMARY CONFIGURATIONS

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

PHYSICAL SPECIFICATIONS

- 19 in rack mount / 48 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

- Distributed Control
- Redundant Processor
- Hot-Swappable Interfaces and Processor Boards
- 4,096 Ports non-blocking
- Carrier-Class Reliability: 99.999% ("five nines")

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™: host/remote for integrated network operation
- Three PIC Equal Access
- Toll Restriction
- User Defined Announcements
- Voice Mail System Interface
- Zone Paging

NETWORK MANAGEMENT

- E-Mail: maintenance notes and traffic usage reports to any e-mail address
- Management of multiple systems via REDCOM MAUI
- SNMP support for alarms and system monitoring

CLASSSM & BILLABLE FEATURES

- CLASS Features
- Automatic Call Distributor (ACD)
- Automated Call Processing (ACP)
- Broadcast Ringing
- Call Screening & Privacy Features
 - ◆ Anonymous Call Rejection (ACR)
 - ◆ Selective Call Rejection (SCR)
 - ◆ Selective Call Acceptance (SCA)
 - ◆ Telemarketer Do Not Disturb (TDND)
- Caller ID (Name and Number Delivery)
- Centrex (IP and TDM)
- Conferences
 - ◆ 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)
- Direct wire 2-wire subscribers
- FXO/FXS
- GR-303
- ISDN BRI
- MSAN
- Radio
- SIP
- V5.2

SIGNALING & PROTOCOLS

- A-Law/ μ -255 Law PCM Conversion
- C5/SS5
- DTMF & RFC 2833
- E&M
- FXO/FXS
- GR-303
- GSRD/LSRD
- ISDN PRI (4ESS, 5ESS, NI1, DMS100, & Euro)
- ISDN BRI (5ESS, NI1 & Euro)
- MF/R1, FG-C&D
- MFC R2
- Radio Interface
- SIP RFC 3261

- SS7
 - ◆ 800 dips via TCAP
 - ◆ ANSI SS7 & ITU C7
 - ◆ LNP via TCAP
 - ◆ TCAP CNAME
- T1/E1
- V5.2

REDCOM TRANSPIP[®] IP TECHNOLOGY SUITE

- Up to 3,000 registered IP subscribers per shelf
- 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
- Legacy Interface Support
- 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.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)
- 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

- Distributed control
- 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
- Host Control Interface

WIRELESS CAPABILITIES

- Radio Interface (VOX, COR, PTT)
- Wireless IP Subscribers

ANCILLARY PRODUCTS

- Maintenance and Administration Graphical User Interface (MAUI)
- Link Command System (LCS): Operator/Directory Assistance

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

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