



1400 series

BRI VoIP Gateways

Allowing enterprises to lower communications costs over any IP link, the Mediatrix® 1400 series BRI VoIP gateways provide four or eight VoIP channels. The Mediatrix 1400 series units are integrated VoIP gateways with two (Mediatrix 1402) or four (Mediatrix 1404) ISDN basic rate interface ports. They constitute an ideal solution for LAN based voice applications or for connecting to a service provider's broadband access over DSL, WLL or cable.



Key Features:

- 4 or 8 simultaneous calls
- ISDN BRI ports with configurable NT or TE
- Transparent ISDN/QSIG tunneling
- User programmable call handling
- Deployable in SIP or H.323 VoIP networks
- CLI, SNMP, Telnet and TFTP for configuration and management
- EIA-232 console port for configuration
- Fax over IP support, including T.38
- Multiple codec support (G.711, G.723.1, G.726, G.729ab)
- Multiple LEDs for status indication at a glance
- Universal 100–240VAC power supply

Product Overview

The Mediatrix 1400 series BRI VoIP gateways provide private voice PBX networking and remote PBX extensions by connecting ISDN phones to the IP, and PBXs with each other through VoIP. Supporting four (Mediatrix 1402) or eight (Mediatrix 1404) simultaneous calls from the IP network or the PSTN, the Mediatrix 1400 series gateways allow any office to use an existing IP network for lower-cost voice communications.

The Mediatrix 1400 series gateways tunnel ISDN/QSIG call control messages. T.38 FoIP, fax bypass, and modem bypass capabilities ensure that the Mediatrix 1400 series gateways seamlessly connect to all voice and data, and PBX networking services. With SIP, H.323 and multiple codec support, the Mediatrix 1400 series gateways offer greater flexibility and scalability for low bandwidth voice. With call routing and selectable NT/TE interfaces, the Mediatrix 1400 series gateways allow user programmable call handling based on hunt groups, caller/called ID, and time of day and local PSTN call-through without packet conversion.

Applications

In enterprise networks, the Mediatrix 1400 series gateways integrate ISDN telephony and IP communications for best use of bandwidth, improved office-to-office communication, and reduced network costs. Instead of installing a separate PBX in a remote office, the Mediatrix 1400 series gateways are able to provide transparent extension of PBX phones. The extensions can be managed centrally and benefit from PBX services such as calling groups, least cost routing, and call forwarding.

The Mediatrix 1400 series gateways also support transparent ISDN & QSIG tunneling. PBXs can be networked using IP while still retaining complete functionality to private voice networking. Designed specifically for enterprise applications, the Mediatrix 1400 series gateways make use of existing broadband access equipment to connect to any standards-based VoIP network.

Technical Specifications

Voice Connectivity

- 2 (Mediatix 1402) or 4 (Mediatix 1404) ISDN BRI/So (S/T), RJ-45
 - Ports configurable for TE or NT
 - 4 or 8 VoIP sessions
 - Configurable point-to-point, point-to-multipoint and connector pinout
 - Cut-through relay for emergency operation (bypass connection)

Data Connectivity

- 1 10Base-T Ethernet, RJ-45

Voice Processing

- Vocoders: G.711 A-Law/ μ -Law, G.723.1, G.726, G.729ab, transparent pass through
- G.168 echo cancellation
- DTMF detection and generation
- Carrier tone detection and generation
- Silence suppression and comfort noise
- Configurable dejitter buffer
- Configurable tones (dial, ringing, busy)
- Configurable transmit packet length
- RTP/RTCP (RFC 1889)

Fax and Modem Support

- Fax over IP
- T.38 Fax relay (9.6 k, 14.4 k)
- G.711 Fax and Modem Bypass

Voice Signaling

- Euro ISDN EDSS-1 / ETSI BRI/NET3
 - ETS 300 012-1 (ITU-T I.430)
 - ETS 300 402-1 (ITU-T Q.921)
 - ETS 300 403-1/2 (ITU-T Q.931)
 - ETS 300 102-1 (ITU-T Q.931)

- Q-SIG (PSS-1) (Optional)
 - ECMA-143
 - ETSI and ISO/ECMA channel numbering
- IPsec VPN feature (Optional)
- SIP
- H.323v3
- ISDN over IP (ISoIP)
 - H.323 GW and GK compatible
 - H.323 Annex M3
 - ISDN/Q-SIG feature tunneling (Optional)
 - ISDN speech, audio and data (Fax Gr 4, UDI 64, RDI 64)

Voice Routing

- Local switching
- Interface huntgroups
- ISDN broadcast message routing
- Routing Criteria
 - Interface
 - Calling/called party number
 - Time of day, day of week, date
 - ISDN bearer capability
- Number manipulation functions
 - Replace numbers
 - Add/remove digits
 - Multiple remote gateways
 - PLAR

QoS

- 802.1p
- DiffServ

Management

- Industry standard CLI
- Local console (RS-232) and remote Telnet access
- TFTP configuration down-and upload
- TFTP firmware download
- SNMP v1 agent (MIB II and private MIB)
- Built-in diagnostic tools (trace, debug)
- Java™ Applet
- HPOV Integration with NNM

Operating Environment

- Operating temperature: 0–40°C
- Operating humidity: 5–80% (non condensing)

System

- CPU Motorola MPC850 @ 50 MHz
- Memory 16MB SDRAM/4MB Flash
- Power: 100–240 VAC (50/60 Hz)
- Power dissipation 4W

For additional information, contact your Mediatix Representative, or call:

1-877-GET-VOIP or (514) 285-0058



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