



The Mediatrix 3000 Series allow enterprises to lower communications costs over any IP link. They are multi-function devices combining VoIP IAD, Gateway, IP Router, SIP aware NAT/Firewall and QoS control in a secure and powerful platform.

This platform, featuring analog FXS, ISDN BRI, or T1/E1 PRI interfaces, provides an ideal solution for enterprise voice applications or for connecting to a service provider's broadband access.

The Mediatrix 3000 Series also allows Carriers, Service Providers, and System Integrators to initially deploy secure systems and generate additional revenue streams.

### Key Benefits

- Feature rich carrier grade product.
- Analog FXS, ISDN BRI, or T1/E1 PRI interface ports.
- Deployable in SIP VoIP networks.
- Up to 60 simultaneous calls.
- User programmable call handling.
- Networking features: complete VoIP-enabled IP router.
- Security features: NAPT/Firewall with proxy-based SIP ALG, VPN, SNMPv3, SSH, HTTPS. Hardware ready and capable to support SRTP and SIP over TLS.
- Proven voice algorithms implemented on dedicated DSP engine for enhanced voice quality on each interface card.
- Fax over IP support, including T.38.
- Multiple codec support.
- Can support local VoIP network.
- Remote management capabilities.

## Mediatrix® 3000 Series



### Product Overview

Designed specifically for enterprise applications, the Mediatrix 3000 Series gateways make use of existing broadband access equipment to connect to any standards-based VoIP network.

The Mediatrix 3000 series gateways meet the requirements of enterprises that want to connect their Analog or ISDN equipment, such as PBXs, through a FXS, BRI, or PRI interface to an IP network or as a gateway to the PSTN.

The Mediatrix 3000 series is targeting:

- Enterprises with branch offices and remote offices, including SOHOs.
- Enterprises seeking access to the benefits of Voice over IP without discarding existing legacy equipment.
- Enterprises wishing to implement Voice over IP through a gradual, transparent, and cost-effective migration.
- Multi-tenant / multi-dwelling units and premises wishing to implement Voice over IP while maintaining existing wiring and handsets.
- Enterprises looking to implement secure RTP (SRTP) and Secure SIP (SIPS) in 2007.

The Mediatrix 3000 series platforms are available with different packages including the Basic Digital Gateway or the Secure Controller add-on.

### Sales Department

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MIP-GES060727 3000ProductBrochure



## 3000 Series Analog / Digital Gateways

### Applications

The Mediatrix 3000 VoIP gateways allow any office to use an existing IP network for lower-cost voice communications.

The Mediatrix units link any standard analog, ISDN BRI, or T1/E1 PRI connection to the IP network and deliver the clarity of toll quality voice for a comprehensive VoIP solution.

T.38 FoIP, fax bypass, and modem bypass capabilities ensure that the Mediatrix 3000 gateways seamlessly transport voice and data services. The Mediatrix 3000 gateways offer flexibility and scalability for VoIP network integration and low bandwidth voice.

With configurable FXS, NT/TE BRI/PRI ports, call-switching, and user-programmable call routing (including caller/called ID), Mediatrix 3000 gateways integrate smoothly into existing PBX and PSTN networks.

### Mediatrix 3000 Hardware Models

#### Mediatrix 3300 – FXS

- 7 FXS + 1 Bypass port per analog card
- 1 or 2 cards

#### Mediatrix 3400 – BRI

- 4 + 1 bypass ISDN BRI ports software configurable as NT or TE per card
- 1 or 2 BRI cards
- 8 or 16 simultaneous calls
- Configurable point-to-point, point-to-multipoint and connector pinout
- Cut-through relay for emergency operation (bypass connection)
- Optional power feeding module

#### Mediatrix 3530 – PRI T1

- 23 or 46 simultaneous calls
- 1 or 2 ISDN PRI ports
- NT/TE software configurable

#### Mediatrix 3630 – PRI E1

- 30 or 60 simultaneous calls
- 1 or 2 ISDN PRI ports
- NT/TE software configurable

### Technical Specifications

#### Voice Processing

- Vocoders: G.711 (A-law,  $\mu$ -law), G.723.1, G.726, G.729a/b
- G.168 echo cancellation
- DTMF detection and generation
- Carrier tone detection and generation
- Silence detection / suppression and Comfort

- Noise Generation level software adjustable
- Configurable dejitter buffer
- Configurable transmit packet length
- RTP/RTCP - RFC 1889, RFC 1890, RFC 2833, RFC 3389

#### Fax and Modem Support

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

#### IP Telephony Protocol

- SIP

#### Management

- SNMPv3, HTTP, FTP, TFTP, HTTPS
- Auto-provisioning for VoIP parameters
- Automatic firmware download
- User-friendly web Pages for VoIP Parameters

#### ISDN Signaling

- Euro ISDN EDSS-1 / ETSI PRI/NET5
- ETS 300 011 (ISDN PRI UNI)
- ETS 300 012-1 (ITU-T I.430)
- ETS 300 402-2 (ITU-T Q.921)
- ETS 300 403-1/2 (ITU-T Q.931)
- ETS 300 102-2 (ITU-T Q.931)
- ISDN NI-2 (US T1 PRI)
- ISDN DMS100 (US T1 PRI)
- ISDN 5ESS (US T1 PRI)
- ISDN speech, audio and data (Fax Gr 4, UDI 64, RDI 64)

#### Voice Routing

- Local switching
- Interface hunt groups
- 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 Marking

- TOS/DiffServ
- IEEE 802.1p/Q

#### WAN Connection

- 1 x 10/100 BaseT Ethernet RJ-45 connector

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**3000 Series**  
**Analog / Digital Gateways**

**Secure Controller Option Specifications**

**IP Routing NAT and Firewall**

- SIP aware NAT/PAT/Firewall (SIP Proxy based) with standard ALGs
- Statefull inspection
- RIPv1 and v2
- Static routes
- IP filtering and Port forwarding
- DHCP Client
- DHCP Server
- PPPoE client
- VLAN support

**QoS / Traffic Control**

- Marking Incoming traffic, Locally generated traffic or Both
- Traffic shaping
- Bandwidth guarantees and Limits
- Classification by Port, Appl, Address, TOS byte

**VPN**

- Encryption AES128, AES192, AES256, DES, 3DES
- Authentication MD5 and SHA
- Point-to point VPN or Roadwarrior configuration
- Transport/Tunnel support

**LAN Switch**

- 4 Ethernet 10/100 Base-T Ethernet RJ-45 ports enabled with the SC option.

**Ordering Models**

	Analog	BRI	T1 PRI	E1 PRI
Digital Gateway	N/A	Mediatrix 3400 DG	Mediatrix 3500 DG	Mediatrix 3600 DG
Secure Controller	Mediatrix 3300 SC	Mediatrix 3400 SC	Mediatrix 3500 SC	Mediatrix 3600 SC

**Physical Specifications**

**Operating Environment**

- Operating temperature: 0°C to 40°C
- Storage temperature: -20°C to +70°C
- Humidity: up to 85 %, non-condensing

**Power Supply**

- Internal 100-240 VAC power supply

**Mechanical**

- Rack mount, Desk mount, Wall mount
- 2 interface card slots
- Stackable units to increase port count

**Dimensions**

- Height: 4.4 cm (1.73 in.) approx.
- Width: 44.5 cm (17.5 in.) approx.
- Width (mounting brackets): 48.5 cm (19 in.) approx.
- Depth: 20.5 cm (8 in.) approx.

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