Mediatrix® 4104 4104 Access Device

The Mediatrix® 4104 is a high-quality and cost efficient VoIP gateway connecting small offices to an IP network, while preserving investment in analog telephones and faxes.

It allows Service Providers to deploy rapidly and economically their solutions in SOHOs and it is the ideal solution for small branch office connection to larger private networks.

Key Benefits

Best Total Cost of Ownership

- Ease of deployment & management with autoprovisioning
- Protect analog telephony investments with the VoIP benefits

Best Price Quality Ratio

- High Voice Quality and Reliability
- Wide support of countries

SI P/MGCP interoperabil ity certified with key vendors

Brand New Mediatrix Package for VoIP FXS Interfaces

- Hardware ready to support Security (SIPS/SRTP)
- Transparent replacement of Mediatrix 1100 Series

Mediatrix® 4104
4-port VoIP Access Device

Mediatrix 4104 Overview

The Mediatrix 4104 connects up to 4 analog phones and/or faxes to a broadband modem.

The Mediatrix 4104 is the new and improved version of the Mediatrix 1104.

The Mediatrix 4104 enables cost-effective VoIP deployments in small offices for both IP Centrex and private network applications.

The Mediatrix 4104 has the additional benefit of supporting high compression codecs simultaneously on each analog voice ports, thus saving valuable bandwidth.

As all other Mediatrix devices, the 4104 provides a web interface, giving users a convenient access to the unit for initial set-up. The devices can also auto-provision by fetching their encrypted configuration from a TFTP or HTTP server, making installation secure and transparent to the end-users. To further facilitate deployments, factory-loaded configurations are possible.

In addition, an optional intelligent PSTN bypass allows Mediatrix 4104 users to make emergency calls and maintain their phone service in the event of a power outage or network failure.

Technical Specifications

IP Telephony Protocol

- SIP – RFC 3261
- MGCP/NCS – RFC 3435

Voice Processing

- Vocoders: G.71 1 (A-law, p-law), G.723.1, G.726, G.729a/b
- G.168 echo cancellation (64 ms)
- DTMF detection and generation
- Carrier tone detection and generation
- Silence detection / suppression and Comfort Noise Generation level software adjustable
- Configurable de-jitter buffer
- Configurable tones (dial, ringing, busy)
- Configurable transmit packet length
- RTP/RTCP - RFCs 1889 / 1890 / 2833 / 3389

Fax and Modem Support

- Group 3/Super G3 Fax real-time FoIP over clear channel (G.71 1), G.726 or T.38
- T.38 Fax relay (9.6 k, 14.4 k)
- G.711 Fax and Modem Bypass

Management

- Web-based GUI (SIP only)
- TFTP, HTTP configuration up- and download (Auto-provisioning)
- TFTP, HTTP firmware upgrade
- SNMPv1/v2/v3 agent (MIB II and private MIB)

WAN Connection

- 1 x 10/100 Base T Ethernet RJ-45 connector

Analog Connection

- 4 x RJ-1 1 connectors, analog phone/fax (FXS) interfaces

Bypass Connection

- 1 x RJ-1 1 connector, PSTN bypass

QoS

- TOS/DiffServ
- IEEE 802.1p/Q

Enhanced Telephony Features

- Call Forward / Call Transfer / 3-way Conference Call / Call Waiting / Caller ID on Call Waiting / Call on Hold
- Dynamic de-jitter manager
- Voice Activity Detection/ Comfort Noise

Operating Environment

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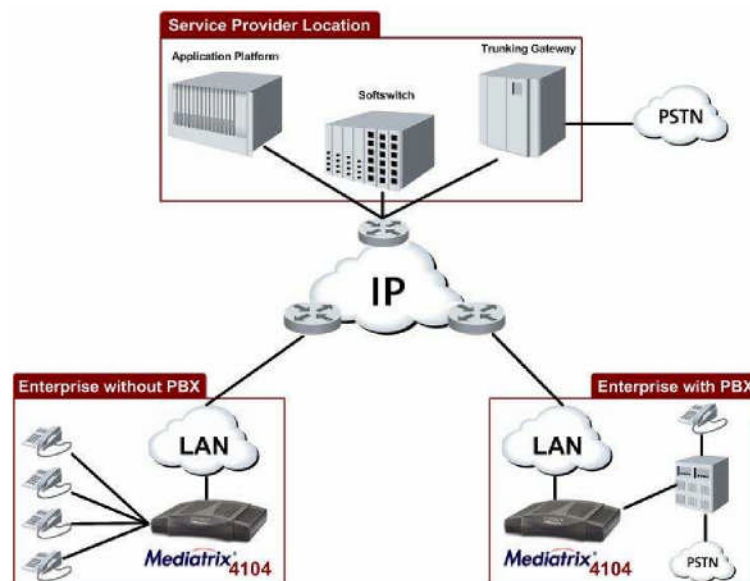- Humidity: up to 85%, non-condensing

Power Supply

- Internal off-line power supply connected to the AC main with a standard IEC-320 power cord

Unit Dimensions and Weight

- 4.9 cm x 22.0 cm x 17.6 cm (1.9 in. x 8.7 in. x 6.9 in)
- Unit weight 545 g (1.2 lb)
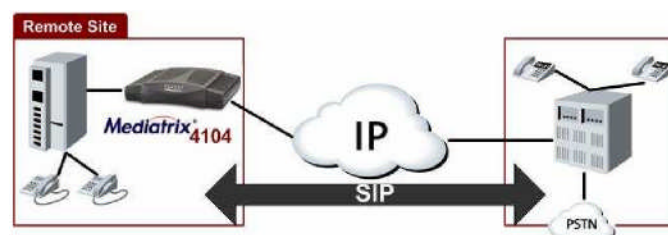
Applications

SOHO Hosted Solution

Main Advantages:

- Major savings in long-distance and PSTN access fees
- Re-use of existing analog phones and faxes
- Simplified wiring = savings in ADDS/MOVES/CHANGES
- Access to essential PSTN Emergency capabilities even during power outages

Small Branch Office Connectivity

Main Advantages:

- Maintain branch offices PSTN phone number
- Use VoIP network for internal communications
- Major savings in long-distance and PSTN access fees
- Supports all PBX telephone functionalities seamlessly