

# 2102

## Residential VoIP Access Device

The Mediatrix® 2102 features voice prioritization over data and innovative IP technology to connect up to two residential phones or fax machines and a PC or router directly to a broadband modem - without the need for an external router. The Mediatrix 2102 VoIP access device is equipped with two FXS ports, a PSTN bypass port, and two 10/100 BaseT Ethernet ports and is the ideal platform for service providers looking to deploy cost-effective and secure residential IP telephony.



### Key Features:

- IP connectivity for analog phones and faxes
- PSTN-quality voice over IP networks
- Deployable in SIP-based VoIP networks
- Automatic firmware and configuration file download
- Configuration file encryption
- TFTP or HTTP auto-provisioning
- User-friendly web interface
- Ethernet port for PC or LAN
- PPPoE client and DHCP client
- Transparent IP Address Sharing
- PSTN bypass option
- Priority of voice over data
- Interoperable with equipment from leading industry vendors
- T.38 support
- High-compression codec support

### Protecting Investment

The Mediatrix 2102 can be deployed as a residential IP telephony access device, enabling service providers to cost-effectively and securely deliver VoIP services to their subscriber base. The Mediatrix 2102 connects up to two analog phones and/or faxes, as well as a PC or a home router, to a service provider's network over a single broadband connection. An optional PSTN bypass allows 2102 users to make emergency calls and maintain phone services in the event of a power outage or network failure. The bypass is also activated when a specific digit sequence is dialed, such as 911.

With an embedded PPPoE client and its innovative Transparent IP Address Sharing technology, the Mediatrix 2102 and the PC or router connected to the second Ethernet port have the same public IP address, eliminating the need for private IP addresses or address translation. The Mediatrix 2102 has the additional benefit of supporting high compression codecs simultaneously on both analog voice ports, thus saving valuable bandwidth.

### Applications

For service providers, the Mediatrix 2102 creates additional revenue-generating opportunities by immediately bringing residential users online to new high-value IP telephony services. The Mediatrix 2102 is an ideal, cost-effective solution for bringing VoIP to the home by using the existing broadband connection, and without having to invest in any additional devices. The Mediatrix 2102 is the only device needed other than the broadband modem, to allow service providers to deploy residential IP telephony services.

With the Mediatrix 2102, service providers get the product characteristics allowing them to successfully deploy residential IP telephony applications. The Mediatrix 2102 provides a web interface, giving users a convenient access to the unit for initial set-up. The Mediatrix 2102 can auto-provision by fetching its encrypted configuration file from a TFTP or HTTP server making installation transparent to end-users. To further facilitate deployments, factory loaded configurations are possible. Automatic firmware and configuration file downloads ensure that the 2102 is always up-to-date.

## Mediatrix Benefits

To ensure maximum flexibility, Mediatrix access devices and gateways can be configured to support SIP, H.323 or MGCP/NCS. The units can dynamically detect the most commonly used IP telephony codecs and fax protocols, including T.38, and can be auto-provisioned, remotely managed and upgraded through Mediatrix' own innovative and user-friendly management tool – the Mediatrix Unit Manager Network.

Mediatrix units feature attractive designs for either desktop or wiring closet installations and their built-in multi-protocol and remote upgrade capabilities protect users from obsolescence as standards evolve and new service offerings are created.

Mediatrix VoIP products are feature-rich with security and QoS support capabilities and offer seamless integration with proprietary features of leading vendors' communications management systems including softswitches, gatekeepers, proxy servers and call agents.



## Technical Specifications

### IP Telephony Protocol

SIP

### Telephony Features Supported

Caller ID, Call Waiting, Caller ID on Call Waiting, Call on Hold, Call Forward, Call Forward on Busy or on No Answer, Call Transfer with or without Consultation, 3-Way Conferencing, Call Transfer with 3-Way Conferencing Consultation, Out-of-Band DTMF, Dynamic De-Jitter Buffer Manager, Voice Activity Detection.

### Vocoders

G.711 (A-law,  $\mu$ -law), G.723.1, G.729a, ab

### Echo Cancellation

G.168

### Silence Suppression

Silence detection / suppression and Comfort Noise Generation level software adjustable

### Network Management Protocols

SNMPv3, HTTP, TFTP, DHCP

### Real-Time Transport Protocols

RTC/RTCP - RFC 1889, RFC 1890, RFC 2833, RFC 3389

### Ethernet Connection

2 RJ-45 connectors, 10/100 BaseT Ethernet access

### Analog Connection

2 RJ-11 connectors, analog phone/fax (FXS) interface

### Bypass Connection

1 RJ-11 connector, PSTN bypass

### Data Features

PPPoE client, TFTP or HTTP auto-provisioning, configuration file encryption, Transparent IP Address Sharing (Mediatrix patent pending technology), STUN Client, DHCP server

### QoS

ToS, DiffServ, 802.1p, 802.1Q

### Real-Time Fax

Group 3/Super G3 Fax real-time FoIP over clear channel (G.711) or T.38

### Operating Environment

Operating temperature: 0°C to 40°C

Storage temperature: -20°C to +70°C

Humidity: up to 85 %, non-condensing

### Power Supply

External 24 Vdc – 12 W wall plug power supply

### Dimensions & Weight

Height: 4.6 cm, 1.8 in.

Width: 20.2 cm, 8 in.

Depth: 13.9 cm, 5.5 in.

Weight: 339.8 g, 0.75 lb.

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