

INNOMEDIA MTA 3338Re

MULTIMEDIA TERMINAL ADAPTER

ANALOG VOIP NAT ROUTER WITH PSTN FALLBACK

The MTA 3338Re is the most versatile VOIP CPE available to service operators today. Combining the best features of InnoMedia's award-winning IP telephony products, the MTA 3338Re offers unsurpassed quality and ease of deployment. Its PSTN capability as well as its NAT router function solves the problem of device clutter in the home network environment and offers a more reliable service experience for end-users.

KEY BENEFITS

Provides both VoIP and PSTN Network Connectivity Through a Single Device

Offers NAT Router Features for Home Networking Flexibility

Provides QoS Features to Ensure Optimum Voice Quality

Easy to Install and Auto-Provision



VoIP And PSTN Connectivity

Many CPE devices allow a user to connect their phone to only the VOIP network, as a second line. The MTA 3338Re allows users to connect a phone to a single device that provides the cost-effectiveness of VOIP and the reliability of the PSTN during power failures or loss of broadband network connectivity. This helps reduce service interruption calls, and also addresses E911 issues.

QoS Features Ensure Optimum Voice Quality

Packetized voice is very sensitive to variances in the condition of the broadband network. Latency, packet loss, jitter, and bandwidth constraints all contribute to voice quality degradation in IP telephony systems. The MTA 3338Re utilizes various mechanisms to mitigate such problems. IP precedence tagging tags voice packets for prioritization. Within the MTA, separate queues are allocated for data and voice packets so that voice traffic is transmitted first and data traffic second. Finally, an adaptive jitter buffer dynamically adjusts itself to the changing condition of the network in order to minimize the impact to voice quality.

NAT Router Capability For Home Networking

The MTA 3338Re's integrated NAT router capability positions it as an ideal VOIP device in the broadband-enabled home. Providing internet-sharing capability as well as access control features, the MTA 3338Re's NAT router function offers the convenience of a home networking solution without the added clutter of an extra router device.

Easy To Install and Auto-Provision

One of the main concerns of service operators is to reduce the complexity and cost of deployment of CPE to end-users. To this end, the MTA 3338Re is designed as an easy self-installable device reducing the high cost of service truck rolls to the customer premises. Auto-provisioning capabilities allow the service operator to manage and configure the unit remotely. The end-user simply plugs a phone in and starts making phone calls.



KEY FEATURES

PSTN Fallback for

- Power failure
- IP network failure
- VOIP network failure
- Digit Map Routing
- User's Option

Broadband NAT Router

- NAT
- Port Forwarding
- Access Filtering
- VPN pass-through

QoS Features

- IP Precedence tagging
- Priority switch
- Separate queues for voice/data
- Adaptive jitter buffer

Easy Installation and Auto Provisioning

- HTTP and HTTP-Sec provisioning
- IP address announcement
- TFTP firmware upgrades
- Web-based administration

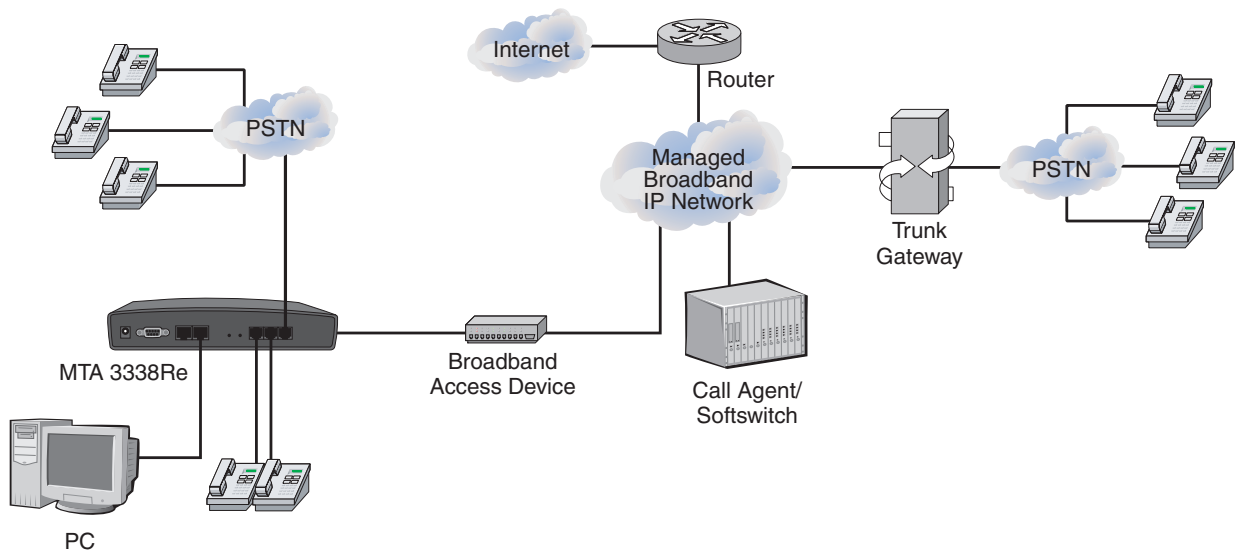
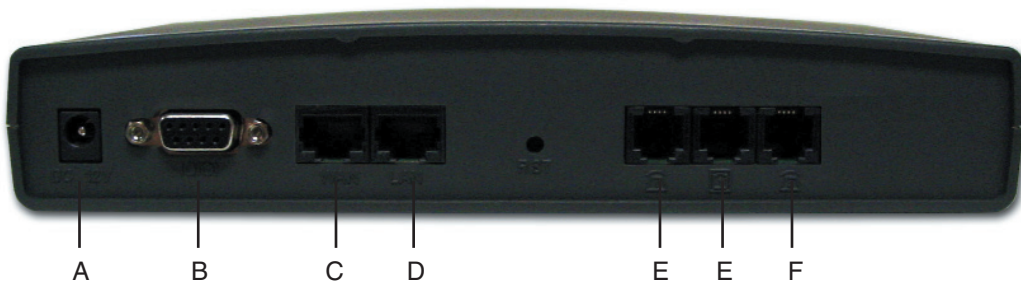


Figure 1 - Voice Services Over Both PSTN and IP Networks, NAT router capability

MTA INTERFACES



- A. Power input
- B. RS-232 interface
- C. WAN port
- D. LAN port
- E. RJ-11 port
- F. Wall Jack port

SPECIFICATIONS

Product Specification

Category	Specification
Telephone Interface	1 or 2 FXS voice ports
PSTN Interface	1 FXO voice port
Network Interface	10/100 Base-T RJ-45 Uplink and Downlink ports
Accessory	Ethernet Cable, AC/DC Power Adapter

Software Specification

Category	Specification
Protocols	SIP 2.0
Speech Codec Capabilities	G.711 and one of the following: G.726 G.728; G.729E (High quality high complexity codecs) G.723.1; G.729A (Low bit rate codecs) Supports 3-way conferencing with compression
Quality of Service	IEEE 802.1p/q; IP TOS Tagging; Built-in Priority Switch; Rate limiting (upstream/downstream); Adaptive jitter buffer
Signal Processing	Echo cancellation: G.168 Fax (fall-back to G.711) Caller ID FSK signal regeneration
Tones	Ring back tone Busy tone Reorder tone Dial tone Off hook warning tone Message waiting tone (MWI)/Stutter tone Call waiting tone
DTMF Tone	DTMF tone detection and generation/RFC2833
Announcements	Play out any voice stream sent by Call Agent or SIP Proxy controlled announcement server
OAM&P	Access components implemented: CLI, TFTP, HTTP 1.0, SNMP, Telnet, DHCP or DNS, HTTPS (available soon) Works with any SNMP (v.1, v.2c, v.3)-based EMS Offers web-based access as well as TFTP-based remote software downloads/upgrades Provisionable set feature codes
Features	Built-in DHCP server NAT capabilities for simultaneous Internet access for multiple PC's IP routing and port forwarding IP/Domain filtering

Physical Specification

Category	Specification
Power Consumption	Idle: 12V/0.27A (3.24W) / Talking: 12V/0.41A (4.92W)
Power Supply	Output: DC 12V, 1000mA / Input: AC120V, 60Hz, 500mA
Dimensions	8.30 in (W) x 5.35 in (D) x 1.53 in (H) / 211 mm (W) x 136 mm (D) x 39 mm (H)
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Operating Humidity	10 to 90% RH
Storage Humidity	5 to 95% RH



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