

# INNOMEDIA

# MTA 6328-1Be2S

## MULTIMEDIA TERMINAL ADAPTERS

### VOIP TERMINAL ADAPTOR IDEAL FOR BROADBAND SERVICE PROVIDERS TO DELIVER TRIPLE-PLAY SERVICES

Delivering high-quality voice, wire-speed routing, and port-based quality of service (QoS) management, the MTA 6328-1Be2S is ideal for broadband access service providers to deliver fiber-based residential triple-play services.

#### KEY BENEFITS

Ideal for broadband triple-play service deployments with guaranteed voice, wire-speed routing, and port-based QoS and bandwidth control

Highly interoperable with softswitches/call agents and flexible auto-provisioning allowing rapid service deployment

Advanced voice/fax feature supports

Powerful remote management via device management servers

Battery backup ensures operation in the event of power failure



*Standalone MTA 6328-1Be2S with 1 voice port*

With 1 voice port and 2 LAN ports, the MTA 6328-1Be2S is an ideal solution for broadband service providers to deploy residential broadband triple play (voice, high-speed Internet access, and IP TV) services.

- **Guaranteed voice quality:** Advanced rate limiting scheme guarantees voice packet bandwidth and priority, thus, ensuring voice quality with simultaneous high speed data transmissions in progress.
- **Wire-speed routing:** Dedicated routing processors assures 100Mbps routing throughput independent of data packet size. This advanced routing performance makes MTA 6328-1Be2S an ideal device for fiber or other high-speed broadband deployments in which data throughput is critical.
- **Port-based QoS:** MTA 6328-1Be2S allows port-based QoS settings (802.1pq, ToS) and packet prioritization. These features are ideal for high-speed triple play services which deliver real-time voice, high-speed Internet access, and high-bandwidth video streaming services.
- **Battery backup option:** A companion battery-backup version of MTA 6328-1Be2S, MTA 6328-1Be2S, offers up to 4 hours of battery talk time to allow primary line voice services to be offered.

MTA 6328-1Be2S also offers advanced VoIP features for rapid and high-performance VoIP service deployment:

- **Voice & Fax:** Supports G.711, G.723, G.726, and G.729 compression, dynamic jitter buffer, echo cancellation for voice, and T.38 & G.11 fallback for fax.
- **VoIP protocol support and interoperability:** Supports MGCP/NCS and SIP protocols, highly interoperable with SIP softswitches and MGCP/NCS call agents.
- **Auto-provisioning:** Supports HTTP and TFTP provisioning, as well as SNMP, FTP, and Telnet for remote monitoring.
- **Remote device management:** supports InnoMedia remote Device Management System for remote device management, monitoring, and debugging.
- **Remote networking:** supports TCP/IP and allows for VPN connections with PPTP and IPSec pass-through capabilities for telecommuting.



## MTA INTERFACES

- A. Battery LED
- B. On/Off switch
- C. Power
- D. Restart button
- E. WAN port
- F. LAN ports
- G. RJ-11 port

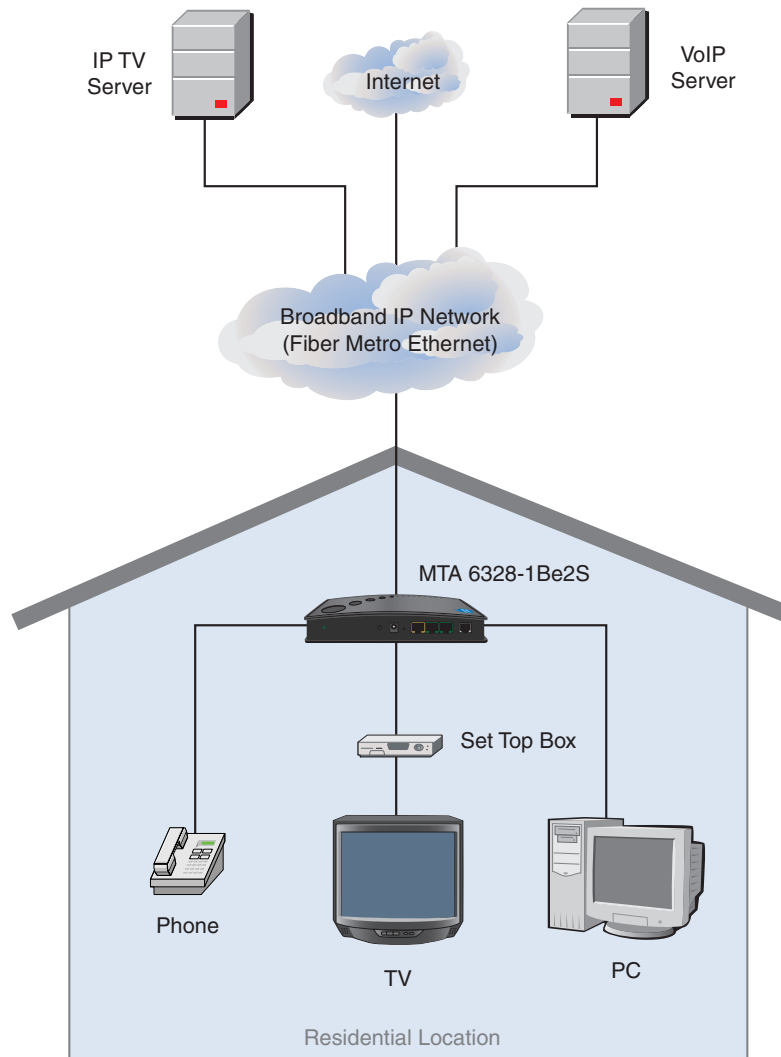
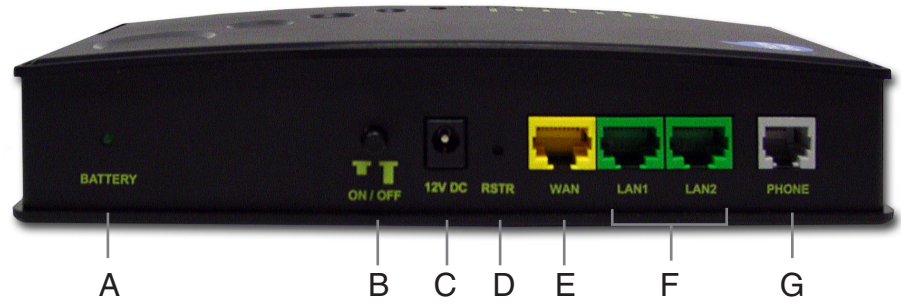


Figure 1- Typical Applications For MTA 6328-1Be2S

## SPECIFICATIONS

### Product Specification

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

### Software Specification

Category	Specification
Protocols	SIP 2.0 (available soon), MGCP 1.0, NCS 1.0
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 Adaptive jitter buffer
Signal Processing	Echo cancellation: G.168 T.38 Fax (or fall-back to G.711) Caller ID FSK signal regeneration Line reversal/Polarity reversal 16 Khz metering pulse (MGCP only)
Certification	FCC part 15B and CE approval in process
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 Device IP announcement (SIP only)
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 STUN NAT traversal (SIP only)

### Physical Specification

Category	Specification
Power Consumption	Idle: 12V/0.253A (3.04W) / Talking: 12V/0.314A (3.77W)
Power Supply	Output: DC 12V, 1A / Input: AC 120V, 60Hz, 200mA
Battery Backup	Up to 4 hrs talk time / 6 hrs standby time; Max 500 full recharge cycles
Dimensions	8 in (W) x 5.125 in (D) x 1.625 in (H) / 204 mm (W) x 128 mm (D) x 40 mm (H)
Operating Temperature	32°F to 104°F (0°C to 40°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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