

Touchstone® Telephony Modem TM502A



Application

The Touchstone Telephony Modem TM502A delivers two lines of primary line Voice over IP (VoIP) along with High-Speed Data Access.

Setting the Standard for VoIP Subscriber Premise Equipment

ARRIS is the market leader in subscriber premises equipment for cable telephony with deployments of millions of lines of proprietary constant-bit rate (CBR) Cornerstone® Voice Port® units and DOCSIS®/PacketCable® compliant Touchstone Embedded Media Terminal Adaptors worldwide.

The Touchstone TM502A continues ARRIS cable telephony leadership by incorporating 5th generation DOCSIS silicon with updated telephone line interfaces while maintaining the feature set of the widely deployed ARRIS Cornerstone and Touchstone TM402 line interfaces. Each line interface continues to support a 5 REN per line ringing capacity and 48 VDC nominal battery feed. Each line interface also supports advanced features such as selectable ringing waveforms, "boost" loop current, loop voltage management for alarm systems, and template or SNMP provisioned telephony channel settings.

The Touchstone TM502A supports enhanced telephony features include Automatic Gain compensation for Tones and Signals (FSK/CAS), provisioned fixed or dynamic jitter buffers, and G.168 compliant echo cancellation. Advanced signal processing methods provide RFC 2833 compliant DTMF relay, T.38 Fax transmission, three-way calling, call waiting, and caller ID.

ARRIS Touchstone Telephony Modem Offers World Class Features to Deliver the Highest Quality Voice Service

Do not put your trust in reference designs that cannot deliver the performance and requirements for your telephony service. ARRIS R&D experience ensures that the quality and performance of all Touchstone Telephony Modems are consistently maintained at the highest level. When it comes to high-speed data service, subscribers will accept occasional lock-ups or momentary loss of connectivity that may require them to reboot their cable modem. Telephony customers demand 99.999% availability!

All ARRIS Touchstone Telephony Modems support a wide variety of class features including three-way calling, call waiting, caller ID, Emergency 911 and regulatory requirements for wiretap under CALEA legislation.

Environmentally Friendly ARRIS "Green"

With European Restriction of Hazardous Substances (RoHS) directive quickly approaching, ARRIS is pleased to provide the industries first E-MTA that exceeds the RoHS directive. Beyond the present European directive to remove lead and other heavy metals, ARRIS has increased our focus by removing other environmentally impacting materials from the packaging, cables, etc... Please contact your sales representative for more information.



- **DOCSIS 2.0 based and PacketCable 1.0 complaint design provides a solution for the long-term**
- **Toll quality voice supplies a superior subscriber experience**
- **Remotely upgradeable, Touchstone design provides a long-term solution in CPE**
- **Increased CPE compatibility with Boost Current and Automatic Gain compensation for Tones and Signals (FSK/CAS)**
- **Multiple Protocol Support: PacketCable (NCS) and Session Initiated Protocol (SIP)**



