



## Touchstone® TM601

### Telephony Modem



#### Configuration

- DOCSIS 2.0 / PacketCable 1.0/1.5 compliant design provides a flexible solution for the long-term
- TM601B Dual-mode compliance (DOCSIS/PacketCable or EuroDOCSIS/EuroPC) provides a flexible solution for the long-term
- Toll quality voice supplies a superior subscriber experience
- Remote firmware upgrade simplifies maintaining latest feature support in deployed CPE
- Multiple Protocol Support: PacketCable (NCS) and Session Initiation Protocol (SIP)

#### Applications

Based on the success of the Touchstone Telephony Modem TM501 product family, ARRIS introduces the Touchstone Telephony Modem TM601. The TM601 provides operators with an economical converged platform that offers a single line of Voice over IP (VoIP) along with High-Speed Data Access. The TM601 is a cost effective platform that operators can install in place of traditional Cable Modems for High Speed Data subscribers, then up-sell voice services to the subscriber potentially without a truck roll.

#### Setting the Standard for VoIP Subscriber Premise Equipment

ARRIS is the market leader in customer premises equipment (CPE) for cable telephony with combined deployments of over 14 million lines of proprietary constant-bit rate (CBR) Cornerstone® Voice Port® units and DOCSIS®/PacketCable™ compliant Touchstone Embedded Media Terminal Adaptors. The TM601 continues ARRIS cable telephony leadership by incorporating the latest generation DOCSIS silicon with updated telephoneline interfaces while maintaining the feature set of the widely deployed ARRIS Cornerstone and Touchstone TM5 line interfaces. The TM601 supports 5 REN on its single voice line into 500-foot loop length. This means that multiple CPE can interface and properly operate on the same line (such as telephones, FAX machines, answering machines, etc.).

#### TM601A—Environmentally Conscious Packaging

The TM601A product complies with all Restriction of Hazardous Substances (RoHS) regulations, which limit the use of lead and other restricted elements in the design. Additionally, the TM601A package is optimized to reduce cardboard and other superfluous materials that accompany the product. Using our new “bulk” pack shipping configuration, ARRIS packs ten (10) TM601A modems together with accessories required to complete the installation in a single cardboard master container. ARRIS takes environmental consciousness very seriously and is proud to offer this “green” solution to our customers.

# Touchstone® TM601 Telephony Modem

## TM601B—Delivering Maximum Flexibility Via Dual Mode “Hybrid” Support

The TM601B comes equipped with both DOCSIS / PacketCable certificates and EuroDOCSIS / EuroPacketCable certificates from the factory. This enables the TM601B to be used in both DOCSIS and EuroDOCSIS networks. Upon installation, the TM601B will detect whether it is on a DOCSIS or EuroDOCSIS network based on the downstream carrier received. Then, using an 8 MHz upstream channel width, the TM601B will communicate with the CMTS using either an 8 MHz carrier (in EuroDOCSIS applications) or a 6 MHz carrier centered within the 8 MHz band (in DOCSIS applications). So, whether you operate DOCSIS networks, EuroDOCSIS networks, or some combination of both, the TM601B will meet your requirements.

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

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. As with all Touchstone Telephony Modems, equivalent Telephony Firmware runs on all Touchstone Telephony Modem models. This ensures that the quality and performance of all Touchstone Telephony Modems are consistent and maintained at the highest level. Do not put your trust in reference designs that cannot deliver the performance and requirements for your telephony service.



TM601B Back view

[www.arrisi.com](http://www.arrisi.com)

Find more information about the Touchstone® TM601 Telephony Modem.

- Product Specifications—
  - Touchstone® TM601A Telephony Modem Technical Specifications (Publication Code: TM601A\_TS.pdf)
  - Touchstone® TM601B Telephony Modem Technical Specifications (Publication Code: TM601B\_TS.pdf)

### Customer Care

Contact Customer Care for product information and sales

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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