Touchstone® Telephony Modem TM504G



Application

Building upon the success of the market leading Touchstone Telephony Modem TM502 design, ARRIS is pleased to introduce the Touchstone Telephony Modem TM504G. The TM504G delivers four lines of primary line Voice over IP (VoIP) along with High-Speed Data Access. The Touchstone Telephony Modem TM504G uses a single battery slot with two battery pack options to support telephony service during extended power outages.

World Class Features to Deliver the Highest Quality Voice Service

The Touchstone TM504G continues ARRIS cable telephony leadership by incorporating the widely deployed TM502 telephone interfaces and call features. Each line interface provides a 48VDC nominal battery feed with 5 REN per line ringing capacity. Configuration options for loop current, loop voltage management, and ringing waveform are available for each line interface.

Enhanced telephony features include auto-adapting FSK/CAS tone levels, 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.

Continued Leadership in Battery Technology

The Touchstone TM504G utilizes the same battery options as available in the TM502G. The 2-cell, Li-lon battery pack coupled with ARRIS industry leading power management allows the TM504G to support up to 4 hours of battery backup. For more demanding applications, the 4-cell pack is available that provides up to 8 hours of battery backup.

Both lithium-ion battery packs provide 6 to 10 years of service life versus the 3 to 5 years typical of a sealed lead acid (SLA) battery. The lithium-ion batteries are easy to install, allowing for customer battery replacement.

PacketCable & Session Initiation Protocol Support

All Touchstone Telephony Modems support PacketCable (NCS) and Session Initiation Protocol (SIP) protocols. Both signaling protocols are based on the same architecture which allows ARRIS to maintain similar capabilities between software loads (i.e., provisioning, management, web interface). In addition, the available SIP signaling software provides Quality of Service (QoS) consistent with PacketCable Multimedia QoS methods.

- DOCSIS® 2.0 and PacketCable™ 1.1/1.5 compliant design
- Long-life lithium-ion battery technology minimizes operational expense
- Simplified interoperability through PacketACE[™] configuration file editor
- Increased CPE compatibility with Boost Ringing and FSK/CAS Auto-Tuning
- Software configurable battery management and reporting allows customization of operation parameters
- Multiple Protocol Support: PacketCable (NCS) and Session Initiation Protocol (SIP)





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Specification	ns	Ordering	Information
Physical:	Operating Temperature °F (°C)	Code 721022	Description Touchstone TM504G/NA-0 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint E-MTA. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 12 foot power cord with NEMA 1-15 pass-through power plug. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide. NO battery included
	Weight lbs (kg)	721023	Touchstone TM504G/NA-4 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint E-MTA Includes 1, 2-cell, Li-Ion Battery Pack for up to 4 hours of battery back-up. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 12 foot power cord with NEMA 1-15 pass-through power plug Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
	Diagnostic LEDsPower, DS, US, Online, Link, Telephone 1, Telephone 2, Telephone 3, Telephone 4, Battery	721024	Touchstone TM504G/NA-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint E-MTA Includes 1, 4-cell, Li-Ion Battery Pack for up to 8
Interfaces:	RF Interface		hours of battery back-up. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 12 foot power cord with NEMA 1-15 pass-through power plug Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
Telephony:	Supervisory Voltage	721025	Touchstone TM504G/CE-0 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint E-MTA Integrated 100-240 VAC, 50/60 HZ Power supply w/ 12 foot power cord with CEE 7/16 "Euro" Power Plug. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide. NO battery included
RF Downstream:	Country templates) Frequency Range (MHz)	721026	Touchstone TM504G/CE-4 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint E-MTA Includes 1, 2-cell, Li-Ion Battery Pack for up to 4 hours of battery back-up. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 12 foot power cord with CEE 7/16 "Euro" Power Plug Includes Quick Install Guide, Ethernet Cable, and
	Modulation QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM Data Rate (Mbps) (Max.)	721027	CD-ROM with Users Guide. Touchstone TM5024/CE-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint E-MTA Includes 1, 4-cell, Li-Ion Battery Pack for up to 8 hours of battery back-up. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 12 foot power cord with CEE 7/16 "Euro" Power Plug Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
	Frequency Stability (kHz)±5 Output Impedance (Ohms)	718003	One 2-Cell, 2.2 Ah, Li-Ion Battery Pack for TM502/504G
Standards:	Codec: G.711, 64 kbps, and A-law encoded speech Enhanced codec software support (G.726, G.728, G.729E)	718004	Kit of 60, 2-Cell, 2.2 Ah, Li-Ion Battery Packs for TM502/504G
	T.38 Fax Relay DOCSIS 2.0 based PacketCable 1.0 & 1.5 based	718005	One 4-Cell, 4.4 Ah, Li-Ion Battery Pack for TM502/504G
	RFC3261 SIP: Session Initiation Protocol UL® 60950, FCC Part 15 Class B, CE	718006	Kit of 30, 4-Cell, 4.4 Ah, Li-Ion Battery Packs for TM502/504G
Battery back-up times	s are typical and can be influenced by the age of the battery, the charging state, s	storage conditions	s and operating temperature as well as factors such as date

Battery back-up times are typical and can be influenced by the age of the battery, the charging state, storage conditions and operating temperature as well as factors such as data activity and length of active telephone calls. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

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