



Touchstone®

Wireless Telephony Modem WTM552A and WTM552G

Configuration

- DOCSIS® 2.0 and PacketCable™ 1.1/1.5 compliant design
- High performance WiFi-Alliance certified 802.11b/g wireless access point
- High Speed Internet via 4 ports 10/100 Base-T Ethernet (RJ-45)
- Up to two lines of carrier-grade VoIP
- Firmware compatibility with legacy and future Touchstone products
- Multiple Protocol Support: PacketCable (NCS) and Session Initiation Protocol (SIP)



Applications

Building upon the success of over 20+ million voice lines deployed, ARRIS is pleased to introduce the Touchstone WTM552 family of wireless gateway products. The WTM552 combines two analog voice lines, a 4-port router, and wireless access point into a single device capable of supporting both home and small business applications. Using multi processor technology, the WTM552 can achieve full bandwidth performance without affecting ARRIS's legendary standard of voice quality.

Gateway Feature Set

- Stateful Packet Inspection (SPI) Firewall with denial of service prevention, port forwarding, URL blocking, and DMZ support
- Network Address Translation (NAT)
- VPN pass-through support (IPSec, L2TP, and PPTP)
- User Friendly Web Interface with settings to allow remote Web page access
- WAN settings to operate as a DHCP client or to support static IP assignment
- WPA™ and WPA2™ Personal, 64/128 bit WEP, and MAC authentication Wireless Security Options
- Includes support for WMM® QOS, WMM Power Save, and Wireless Mesh Telephony
- Independent reset for wireless module – does not effect telephony
- Support for RFC2453 RIPv2 and RFC 2082 MD5 authentication

Leadership in Battery Technology

- Multiple Battery Options Available – 2-cell and 4-cell Li-Ion solutions for up to 4 and 8 hours of standby battery hold time
- Firmware configurable battery management and reporting allows customization of operation parameters
- Battery Life – Li-Ion solutions give 6 to 10 years life expectancy almost double older technologies

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Specifications

Physical:	Operating Temperature °F (°C)41 to 104 (5 to 40) Operating Relative Humidity (Min-Max) 5-85%(Non condensing) Storage Temperature °F (°C) -40 to 158 (-40 to 70) Color Dark gray Dimensions (H x W x D) in. (cm) 8.6 x 2.1 x 7.1 (21.8 x 5.3 x 18.0) - excluding F-connector Weight lbs (kg)..... No battery included: 1.2 (0.54) Battery: 4 Hour Back-up Option (-4) Backup Capacity Lithium-ion 2.2 Ah Battery Dimensions in. (cm) 1.2 x 1.85 x 3.1 (3.0 x 4.7 x 7.9) Weight lbs (kg)..... 1.5 (0.66) Battery: 8 Hour Back-up Option (-8) Backup Capacity Lithium-ion 4.4 Ah Battery Dimensions in. (cm) 1.2 x 1.85 x 5.7 (3.0 x 4.7 x 14.5) Weight lbs (kg)..... 1.7 (0.77) Battery Storage Temperature °F (°C) -4 to 140 (-20 to 60) Note: Storage above 77°F (25°C) will significantly reduce life of the battery and not recommended. Diagnostic LEDs Power, DS, US, Online, Link, Ethernet 1, Ethernet 2, Ethernet 3, Ethernet 4, WLAN, DMZ, Telephone 1, Telephone 2, and Battery (G/H Models ONLY)
Interfaces:	Coax Cable RF Interface External 'F' type connector Data Interfaces 10/100 Base-T Ethernet (4 RJ-45 connectors) Telephony Interface 2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2") Wireless RF Antenna Interface External SMTA connector to single detachable dipole antenna Input Power (nominal) 100-240 VAC, 50/60 Hz
Telephony:	Supervisory Voltage 48 V dc nominal Maximum Loop Length to CPE 1500 ft (457M) of 26 AWG (0.4 mm) wire Ringing Load Capacity 10 REN total; 5 per line Provisionable High Loop Current Mode Yes Telcordia™ GR 1089 (Lightning and Power Surge) Tested Yes Programmable Interface for Worldwide Applications Yes (supports multiple country templates)
RF Downstream:	Frequency Range (MHz) 88-860 Modulation (QAM) 64 or 256 Data Rate (Mbps) (Max.) Up to 42 DOCSIS, 51 Euro-DOCSIS RF Input Sensitivity Level (dBmV) -15 to 15 Bandwidth (MHz) 6
RF Upstream:	Frequency Range (MHz) 5-42 Modulation QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only) Data Rate (Mbps) (Max.) up to 30.72 RF Output Level (dBmV) A-TDMA +8 to 54 dBmV (32 QAM, 64 QAM), +8 to 55dBmV (8 QAM, 16 QAM), +8 to 58 dBmV (QPSK) S-CDMA +8 to +53 dBmV (all modulations) Automatic Level Adjust Yes Gain Control Range (dB) 50 Frequency Stability (kHz) ±5 Output Impedance (Ohms) 75
Standards:	Codec: G.711, 64 kbps, μ and A-law encoded speech, G.726, G.728, G.729E T.38 Fax Relay DOCSIS 2.0, PacketCable™ 1.0 and PacketCable™ 1.5 RFC3261 SIP: Session Initiation Protocol UL® 60950-1, FCC Part 15, FCC Part 68 (1998) Subpart F for Telephony Ports RJ14 and RJ11, CE IEEE Std. 802.11b, 1999 Edition IEEE Std. 802.11g, 2002 Edition WiFi- Alliance

Note: 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.

Ordering Information

Part #	Description
	All Models: DOCSIS 2.0 and PacketCable 1.0/1.5 Compliant E-MTA with Integrated 100-240 VAC 50/60 HZ Power supply and 6 foot power cord. Package includes Quick Install Guide, Ethernet Cable, and CD-ROM with users guide
718087	Touchstone WTM552A/NA - NEMA 1 power plug - No battery backup capability
718089	Touchstone WTM552G/NA-0 - NEMA 1 power plug - Battery capable. No battery included
718090	Touchstone WTM552G/NA-4 - NEMA 1 power plug - 2-cell, Li-Ion Battery Pack for up to 4 hours of battery back-up
718091	Touchstone WTM552G/NA-8 - NEMA 1 power plug - 4-cell, Li-Ion Battery Pack for up to 8 hours of battery back-up
719409	Touchstone WTM552A/CE - CEE 7/16 Euro power plug - No battery backup capability
719410	Touchstone WTM552G/CE-0 - CEE 7/16 Euro power plug - Battery capable. No battery included
719411	Touchstone WTM552G/CE-4 - CEE 7/16 Euro power plug - 2-cell, Li-Ion Battery Pack for up to 4 hours of battery back-up
719412	Touchstone WTM552G/CE-8 - CEE 7/16 Euro power plug - 4-cell, Li-Ion Battery Pack for up to 8 hours of battery back-up
Accessories	
718003	2-Cell, 2.2 Ah, Li-Ion Battery Pack for WTM552G,H
718005	4-Cell, 4.4 Ah, Li-Ion Battery Pack for WTM552G,H
728984	Replacement Detachable Antenna
721198	North American NEMA 1-15 plug Power Cord, 6 foot
721197	European CEE 7/16 plug Power Cord, 6 foot

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