

# ARRIS Touchstone®

Telephony Modem TM602G with Integrated Battery Back-up



ARRIS is pleased to release the Touchstone Telephony Modem TM602 as the next generation residential product family. Like the industry leading TM502 product family, the TM602 delivers two lines of carrier-grade Voice over IP (VoIP) along with High-Speed Data access. The TM602 maintains the same modem and battery form factors, but introduces two new battery options. The TM602 family offers the same product variants previously supported with the TM502 family.

### **Configuration**

- DOCSIS® 2.0 and PacketCable™ 1.1/1.5 compliant design
- High Speed Internet via 10/100 Base-T Ethernet (RJ-45) or USB1.1 port
- Up to two lines of carrier-grade VolP
- Firmware compatibility with legacy Touchstone TM402 and TM502 products one load for new and legacy ARRIS Telephony Modems
- Simplified interoperability through PacketACE™ configuration file editor
- Multiple Protocol Support: PacketCable (NCS) and Session Initiation Protocol (SIP)

#### **Performance**

- Improved Line Card Performance over the industry leading TM502 Greater than 20% increase in high loop current mode and 10% greater ringing voltage
- Loop Diagnostics for remote testing and troubleshooting of in-house wiring
- 1GHz Tuner future proof toward future plant upgrades
- Toll grade, compression, and High Fidelity CODECs supported (High Fidelity supported in future firmware upgrade)

#### **Leadership in Battery Technology**

- More Battery Options including the first and only 2-cell Li-lon solution for up to 8-hours of standby battery hold time and a new 8-cell battery back for up to 24-hour of hold time!
- Firmware configurable battery management and reporting allows customization of operation parameters
- Boot from Battery Operators or Subscribers can now boot the modem from a charged battery without needing AC Power.

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#### **Specifications**

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Specifications Physical:	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-conn Weight lbs (kg) No battery included: 1.2 lb Battery: 4 Hour Back-up Option (Dark Grey Case)  Backup Capacity Lithium-ion 2 Battery Dimensions in. (cm) 1.2 x 1.85 x 3.1 (3.0 x 4.7 Weight lbs (kg) 1.5 lb  Battery: 8 Hour Back-up Option (Light Grey Case) Backup Capacity Lithium-ion 2 Battery Dimensions in. (cm) 1.2 x 1.85 x 3.1 (3.0 x 4.7 lb)	ector (0.54) 2.2 Ah (0.66) 3.4 Ah (x 7.9)
	Battery: 12 Hour Back-up Option Backup Capacity Lithium-ion 4 Battery Dimensions in. (cm) 1.2 x 1.85 x 5.7 (3.0 x 4.7 x	14.5) (0.77) to 60)
Interfaces:	RF Interface External F-conn Data Interfaces (bridged) 10/100 Base-T Ethernet (RJ-45 conne USB 1.1 Series B conn Telephony Interface 2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 1/2") and the connection of the con	ctor), ector ne 2")
Telephony:	Supervisory Voltage 48 Voc not Maximum Loop Length to CPE 1000 ft (457m) of 26 AWG (0.4 mm) Ringing Load Capacity 10 REN total; 5 pe Provisionable High Loop Current Mode (40mA constant current so NA templates C Telcordia™ GR 1089 (Lightning and Power Surge) Tested Programmable Interface for Worldwide Applications (supports multiple country temp	wire r line Yes ource, ONLY) Yes Yes
RF Downstream:	Frequency Range (MHz) 88- Modulation (QAM) 64 c Data Rate (Mbps) (Max.) 30	-1002 or 256 or 42 to 15
RF Upstream:	Frequency Range (MHz)  Modulation  QPSK, 8-QAM, 16-QAM, 32-QAM, 64-QAM & 128-QAM (S-CDMA  Data Rate (Mbps) (Max.)  RF Output Level (dBmV)  A-TDMA: +8 to 54 dBmV (32-QAM, 64-QAM, 64-Q	30.72 QAM) QAM) QPSK)
Standards:	CODEC: G.711, 64 kbps, µ and A-law encoded speech Enhanced CODEC firmware support (G.726, G.728, G.729E) T.38 Fax Relay DOCSIS 2.0 based PacketCable 1.0 & 1.5 based RFC3261 SIP: Session Initiation Protocol UL® 60950, FCC Part, WHQL and USB-IF	

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.

3 www.arrisi.com

# **ARRIS Touchstone®** Telephony Modem TM602G with Integrated Battery Back-up

## **Ordering Information**

Part #	Description
721057	Touchstone TM602G/NA-0 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Integrated 100-240 VAC, 50/60 Hz Power supply with 6 foot power cord with NEMA 1-15 Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide.  NO battery included
721058	Touchstone TM602G/NA-4 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 2-cell 2.2AHr Li-Ion Battery Pack for up to 6 hours of battery back-up Integrated 100-240 V <sub>A</sub> C, 50/60 Hz Power supply w/ 6 foot power cord with NEMA 1-15 Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide.
721059	Touchstone TM602G/NA-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 2-cell 2.4AHr, Li-Ion Battery Pack for up to 8 hours of battery back-up Integrated 100-240 V <sub>AC</sub> , 50/60 Hz Power supply w/ 6 foot power cord with NEMA 1-15 Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide.
722011	Touchstone TM602G/NA-12 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 4-cell 2.2AHr, Li-Ion Battery Pack for up to 12 hours of battery back-up Integrated 100-240 V <sub>AC</sub> , 50/60 Hz Power supply w/ 6 foot power cord with NEMA 1-15 Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide
721060	Touchstone TM602G/CE-0 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Integrated 100-240 VAC, 50/60 Hz Power supply w/ 6 foot power cord with CEE 7/16 "Euro" Power Plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide.  NO battery included
721061	Touchstone TM602G/CE-4 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 2-cell 2.2AHr, Li-Ion Battery Pack for up to 6 hours of battery back-up Integrated 100-240 V <sub>AC</sub> , 50/60 Hz Power supply w/ 6 foot power cord with CEE 7/16 "Euro" Power Plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide
721062	Touchstone TM602G/CE-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 2-cell 2.4Ahr, Li-Ion Battery Pack for up to 8 hours of battery back-up Integrated 100-240 V <sub>AC</sub> , 50/60 Hz Power supply w/ 6 foot power cord with CEE 7/16 "Euro" Power Plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide
718003	Replacement 2-Cell, 2.2 Ah, Li-Ion Battery Pack for TM502G/H, TM602G/H, and TM504G/H
721944	Replacement 2-Cell, 2.4 Ah, Li-Ion Battery Pack for TM502G/H, TM602G/H, and TM504G/H
718005	Replacement 4-Cell, 4.4 Ah, Li-Ion Battery Pack for TM502G/H, TM602G/H, and TM504G/H
721192	8-Cell, 8.8 Ah, Li-lon Battery Pack for TM602G/H and TM504G/H (Cannot be used in TM502G/H).  Sold separately, no kitted TM602 option available



