

Touchstone®

Telephony Modem TM604G with Integrated Battery Back-up



- DOCSIS® 2.0 and PacketCable™ 1.1/1.5 compliant design
- High Speed Internet via 10/100 Base-T Ethernet
- Up to four lines of carrier-grade VoIP
- Firmware compatibility with legacy Touchstone TM50x and TM602 products
- Simplified interoperability through PacketACE™ configuration file editor
- Multiple Protocol Support: PacketCable (NCS) and Session Initiation Protocol (SIP)
- RIPv2 support



Applications

Building upon the success of the market leading TM504 and TM602 designs, ARRIS is pleased to introduce the TM604G. The TM604 delivers four lines of carrier-grade Voice over IP (VoIP) along with High-Speed Data access. An optional consumer replaceable Lilon battery pack ensures telephony and IP service during power outages. The TM604 maintains the same battery form factor as used in the TM602.

Performance

- Improved Line Card Performance over the TM504 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 for future proof plant upgrades
- Toll grade, compression, and High Fidelity CODEC capable (High Fidelity supported in future firmware upgrade)

Leadership in Battery Technology

- More Battery Options including an 8-cell battery pack to support up to 24 hours of hours of battery back-up 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

Physical:	Operating Temperature °F (°C)	
riiysicai.	Operating Relative Humidity (Min-Max)	
	Storage Temperature °F (°C)	-40 to 158 (-40 to 7
	Color	
	Dimensions (H x W x D) in. (cm)	
	Weight lbs (g)	
	Detter A cell Detter Deals on Online for one to 40 hours of house health	
	Battery: 4 cell Battery Back-up Option for up to 12 hours of battery back-up Capacity	ıp Lithium-ion 4.4 A
		1.2 x 1.85 x 5.7 (3.0 x 4.7 x 14.5
		·
	Battery: 8 cell Battery Back-up Option for up to 24 hours of battery back-up	ıp Lithium-ion 8.8 A
		2.0 x 2.0 x 6.9 (5.1 x 5.1 x 17.6
	Dotton: Characa Tomporatives %F (%C)	-4 to 140 (-20 to 6
	Note: Storage above 77°F (25°C) will significantly reduce life of the ba	
		AC Fail, Battery Low, Battery Missing, Replace Batter
		Power, DS, US, Online, Link, Telephone 1, Telephone 2, Telephone 3, Telephone 4, Batter
	RF Interface	External 'F' type connect
Interfaces:		
	input voitage (nonlinai)	100-240 VAC 30/00 I
Telephony:		48 V dc nomin
		10 REN total; 5 per lir
		Yes (40mA constant current source, NA templates ONL)
		Υε
	Programmable Interface for Worldwide Applications	Yes (supports multiple country template
RF Downstream:	Frequency Range (MHz)	
RF Downstream:	Modulation (QAM)	
	Data Rate (Mbps) (Max.)	30 or 4
	RF Input Sensitivity Level (dBmV)	15 to 1
	Bandwidth	6 MF
DE Un et en en en	Frequency Range (MHz)	5-4
RF Upstream:	Modulation	
	A-TDMA	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM :A-TDN
		QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM :S-CDM
		up to 30.7
	RF Output Level (dBmV)	
		. +8 to 54 dBmV (32 QAM, 64 QAM), +8 to 55dBmV (8 QAM, 16 QAM), +8 to 58 dBmV (QPSI
		+8 to +53 dBmV (all modulation
		Ye
	Codes: C 741 64 khps and A law angoded angoah	
Standards:	Codec: G.711, 64 kbps, μ and A-law encoded speech Enhanced codec firmware support (G.726, G.728, G.729E)	

DOCSIS 2.0 based

PacketCable 1.0 & 1.5 based RFC3261 SIP: Session Initiation Protocol UL® 60950, FCC Part 15 Class B, CE

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.

Ordering Information

Part #	Description
721068	Touchstone TM604G/NA-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 NEMA 1-15. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide. NO battery included
721070	Touchstone TM604G/NA-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 4-cell 4.4AHr Li-lon Battery Pack. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with NEMA 1-15. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
728903	Touchstone TM604G/NA-16 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 8-cell 8.8 AHr Li-Ion Battery Pack. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with NEMA 1-15. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
721071	Touchstone TM604G/CE-0 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint 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, and CD-ROM with Users Guide. NO battery included
721073	Touchstone TM604G/CE-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 4-cell 4.4 AHr Li-Ion Battery Pack. 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, and CD-ROM with Users Guide.
728904	Touchstone TM604G/CE-16 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 8-cell 8.8 AH Li-Ion Battery Pack 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, and CD-ROM with Users Guide.
718005	One 4-Cell, 4.4 Ah, Li-Ion Battery Pack TM604G, also fits TM502G/H, TM602G/H, TM504G/H, and TM608G
718006	Kit of 30, 4-Cell, 4.4 Ah, Li-Ion Battery Packs for TM604G, also fits TM502G/H, TM602G/H, TM504G/H, and TM608G
721192	8-Cell, 8.8 Ah, Li-Ion Battery Pack for TM604G, also fits TM602G/H and TM504G/H (Cannot be used in TM502G/H or TM608G).

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