



Touchstone® TM608G Telephony Modem with Integrated Battery Backup Technical Specifications

Specifications

Physical

Operating Temperature °F (°C)	32 to 122 (0 to 50)
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)	10.3 x 2.0 x 7.4, (26.2 x 5.1 x 18.8) - excluding Telephony connector
Weight lbs (g)	No battery included: 1.20 (554)
Battery: 4 cell, 4.4Ahr Option	
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 (g)	0.50 (228)
Battery: 8 cell, 8.8Ahr Option	
Backup Capacity	Lithium-ion 8.8 Ah
Battery Dimensions in. (cm)	2.0 x 2.0 x 6.9 (5.1 x 5.1 x 17.6)
Weight lbs (g)	1.0 (439)
Battery Storage Temperature °F (°C)	-4 to 140 (-20 to 60) (Note 1)
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery
Diagnostic LEDs	Power, DS, US, Online, Link, Telephone 1-8, Battery

Interfaces

RF Interface	External 'F' type connector
Data Interfaces	10/100 Base-T Ethernet RJ-45
Telephony Interface Adapters (not included)	RJ11, RJ14/RJ11, TII IDC (ROHS), Channel IDC (Non-ROHS), and RJ21
Power (nominal)	115/240 VAC, 50/60 Hz

Telephony

Supervisory Voltage	48 VDC nominal
Maximum Loop Length to CPE	1000 ft (457M) of 26 AWG (0.4 mm) wire
Ringling Load Capacity	15 REN total; 5 per line
Provisionable High Loop Current Mode	Yes (40mA constant current source, NA templates ONLY)
Telcordia™ GR 1089 (Lightning and Power Surge) Tested	Yes
Programmable Interface for Worldwide Applications	Yes (supports multiple country templates)

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Specifications Continued...

RF Downstream

Frequency Range (MHz)	88 - 1002
Modulation (QAM)	64 or 256
Data Rate (Mbps) (Max.)	up to 42
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
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
RIPv2 and MD5 Authentication
UL® 60950, FCC Part 15 Class B, CE

Notes:

1. Storage above 77°F (25°C) will significantly reduce life of the battery and is not recommended.
2. 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.

ARRIS Technical Specification

Ordering Information

Part #	Description
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722827	Touchstone TM608G/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 Power Plug Includes wall mounting brackets Quick Install Guide, CD ROM with User Guide, Ethernet cable, Battery, 19 inch rack mounting brackets, and Telephone Interface Adaptor are not included
722828	Touchstone TM608G/NA-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 4-cell 4.4AHr Li-Ion Battery Pack Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with NEMA 1-15 Power Plug Includes wall mounting brackets Quick Install Guide, CD ROM with User Guide, Ethernet cable, 19 inch rack mounting brackets, and Telephone Interface Adaptor are not included
722829	Touchstone TM608G/NA-16 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 8-cell 8.8AHr, Li-Ion Battery Pack Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with NEMA 1-15 Power Plug Includes wall mounting brackets Quick Install Guide, CD ROM with User Guide, Ethernet cable, 19 inch rack mounting brackets, and Telephone Interface Adaptor are not included
722830	Touchstone TM608G/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 wall mounting brackets Quick Install Guide, CD ROM with User Guide, Ethernet cable, Battery, 19 inch rack mounting brackets, and Telephone Interface Adaptor are not included
722831	Touchstone TM608G/CE-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 4-cell 4.4AHr, 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 wall mounting brackets Quick Install Guide, CD ROM with User Guide, Ethernet cable, 19 inch rack mounting brackets and Telephone Interface Adaptor are not included
722834	Touchstone TM608G/CE-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 CEE 7/16 "Euro" Power Plug Includes wall mounting brackets Quick Install Guide, CD ROM with User Guide, Ethernet cable, 19 inch rack mounting brackets and Telephone Interface Adaptor are not included

Telephone Interface Adapter Description

728934	TM608 RJ11 Even / RJ14 Odd Telephone Interface Adaptor
728935	TM608 RJ11 Telephone Interface Adaptor
728936	TM608 RJ21 Telephone Interface Adaptor
728937	TM608 TII Insulation Displacement Connector (IDC) Telephone Interface Adaptor
728942	TM608 Channel Insulation Displacement Connector (IDC) Telephone Interface Adaptor

Battery Packs

718005	4-Cell, 4.4 Ah, Li-Ion Battery Pack for TM502G/H, TM504G/H, WTM552G/H, TM602G/H, TM604G, and TM608G
722842	8-Cell, 8.8 Ah, Li-Ion Battery Pack TM608G (Cannot be used in TM502G/H, TM504, WTM552, TM602, and TM604)

Mounting Brackets

728964	19 inch rack mounting brackets for the TM608
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Notes:

1. TM608 Base is shipped without a Telephone Interface Adaptor. ARRIS recommends all orders include:
Base Unit Part # + Telephone Interface Adaptor Part #

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