

# 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

Ringing 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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# **ARRIS Technical Specification**

# **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  $77^{\circ}F$  (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.

#### **Ordering Information**

#### Part # Description

- 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-lon 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

#### Notes:

 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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