



ARRIS Touchstone® TM722G DOCSIS® 3.0 Telephony Modem Technical Specification

Specifications

Physical

Operating Temperature °F (°C)	32 to 122 (0 to 50)
Operating Relative Humidity (Min-Max)	5-95% (non-condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Dimensions (H x W x D) in. (cm)	9.1 x 2.1 x 7.1 (23.1 x 5.3 x 18.0) - excluding F-connector
Weight lbs (kg)	1.5 (0.68) – excluding battery
Battery Back-up 4-Hour Option (TM722G/NA-4)	Lithium-ion 2.2 AH Capacity, 1.75 lbs (0.79 kg) Battery
Battery Back-up 8-Hour Option (TM722G/NA-8)	Lithium-ion 4.4AH Capacity, 2.0 lbs (0.91 kg) Battery
Battery Storage Temperature °F (°C)	-4 to 140 (-20 to 60), Note: Storage above 77°F (25°C) significantly reduces battery life
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery
Diagnostic LEDs	Power, DS, US, Online, Link, Tel 1, Tel 2, Battery

Interfaces

RF Interface	External 'F' type connector
Data Interfaces (bridged)	10/100/1000 Base-T Ethernet RJ-45, High Speed (480Mbps) USB 2.0
Telephony Interface	2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")
Input Voltage (nominal)	115-240 VAC 50/60 Hz
Power Consumption (W)	7 (idle) 10 (max.)

Telephony

Supervisory Voltage	48 V DC nominal
Maximum Loop Length to CPE	1000 ft (305M) 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

RF Downstream

Frequency Range (MHz)	108-1002
Bonded Channels	up to 4
Capture Bandwidth (MHz)	96 (typical)
Modulation (QAM)	64 or 256
Data Rate (Mbps)	up to 160
RF Input Sensitivity Level (dBmV)	-15 to +15
Carrier Bandwidth	6 MHz

Continue to next page.

ARRIS Technical Specification

Specifications Continued

RF Upstream

Frequency Range (MHz)	5-42
Bonded Channels	up to 4
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)
Data Rate (Mbps) (Max.)	up to 122
RF Output Level (dBmV – one channel)	
A-TDMA	+17 to 57 dBmV (32 QAM, 64 QAM); +17 to 58 dBmV (8 QAM, 16 QAM); +17 to 61 dBmV (QPSK) <i>Note: A-TDMA max output power reduced 3dB when transmitting 2 channels and 6dB with 3 or 4 channels.</i>
S-CDMA	+17 to +56 dBmV (all modulations) <i>Note: S-CDMA max output reduced 3dB when transmitting 2 or more channels.</i>
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75

Standards

DOCSIS 3.0	IEEE 802.3, IEEE 802.3ab
PacketCable 1.0 and 1.5	WHQL, USB-IF
UL® 60950	RFC3261 SIP: Session Initiation Protocol
FCC Part 15 Class B	Codec: G.711, 64 kbps, μ -law and A-law encoded speech
CE, CB	Enhanced codec support (G.726, G.728, G.729E)
RoHS, WEEE	T.38 Fax Relay

Ordering Information

Part Number	Description
780136	Touchstone TM722G/NA-0 DOCSIS 3.0 / PacketCable 1.5 complaint E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Battery NOT included.
780134	Touchstone TM722G/NA-4 DOCSIS 3.0 / PacketCable 1.5 complaint E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Includes one, 2-cell, 2.2 AH, Li-Ion Battery Pack for up to 4 hours of battery back-up.
780135	Touchstone TM722G/NA-8 DOCSIS 3.0 / PacketCable 1.5 complaint E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Includes one, 4-cell, 4.4 AH, Li-Ion Battery Pack for up to 8 hours of battery back-up.
780157	Touchstone TM722G/CE-0 DOCSIS 3.0 / PacketCable 1.5 complaint E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot CEE 7/16 Euro power cord. Battery NOT included.
780158	Touchstone TM722G/CE-4 DOCSIS 3.0 / PacketCable 1.5 complaint E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 CEE 7/16 Euro power cord. Includes one, 2-cell, 2.2 AH, Li-Ion Battery Pack for up to 4 hours of battery back-up.
780155	Touchstone TM722G/CE-8 DOCSIS 3.0 / PacketCable 1.5 complaint E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot CEE 7/16 Euro power cord. Includes one, 4-cell, 4.4 AH, Li-Ion Battery Pack for up to 8 hours of battery back-up.

Specifications 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. ARRIS, the ARRIS logo, Auspice®, C3™, C4®, C4c™, Cadant®, C-COR®, CHP Max5000®, ConvergeMedia™, Cornerstone®, CORWave™, CXM™, D5®, Digicon®, ENCORE®, Flex Max®, HEMI®, Keystone™, MONARCH®, MOXI®, n5®, nABLE®, nVision®, OpsLogic®, OpsLogic® Service Visibility Portal™, PLEXIS®, PowerSense™, QUARTET®, Regal®, ServAssure™, Service Visibility Portal™, TeleWire Supply®, TLX®, Touchstone®, VIPr™, VSM™, and WorkAssure™ are all trademarks of ARRIS Group, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. © Copyright 2010 ARRIS Group, Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of ARRIS Group, Inc. is strictly forbidden. For more information, contact ARRIS.



www.arrisi.com