



ARRIS Touchstone® TM722A 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)	8.1 x 1.7 x 6.9 (20.6 x 4.4 x 17.6) - excluding F-connector
Weight lbs (kg)	1.4 (0.64)
Diagnostic LEDs	Power, DS, US, Online, Link, Tel 1, Tel 2

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

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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 two channels and 6dB when transmitting 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 TM722A/NA 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 Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with user's guide and USB drivers.
780134	Touchstone TM722A/CE 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 Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with user's guide and USB drivers.

Specifications are subject to change without notice.

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