



Touchstone® TM602A Telephony Modem Technical Specifications

Specifications

Physical

Operating Temperature °F (°C)	41 to 104 (5 to 40)
Operating Relative Humidity (Min-Max)	5-85% (Non condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Color	Dark gray
Dimensions (W x H x D) in. (cm)	2.1 x 8.6 x 7.1 (5.3 x 21.8 x 18.0)—excluding F-connector
Weight lbs (kg)	No battery included: 1.2 (0.54)
Diagnostic LEDs	Power, DS, US, Online, Link, Telephone 1, Telephone 2

Interfaces

RF Interface	External F-connector
Data Interfaces (bridged)	10/100 Base-T Ethernet (RJ-45 connector), USB 1.1 Series B connector
Telephony Interface	2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")
Input Voltage (nominal)	
TM602A/NA	100-120 VAC, 60 Hz
TM602A/CE	100-240 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	10 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)

RF Downstream

Frequency Range (MHz)	88-1002
Modulation (QAM)	64 or 256
Data Rate (Mbps) (Max.)	30 or 42
RF Input Sensitivity Level (dBmV)	-15 to 15
Bandwidth (MHz)	6

ARRIS Technical Specification

Specifications Continued

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
UL® 60950, FCC Part 15 Class B, CE
WHQL and USB-IF

Ordering Information

Part Number	Description
721053	Touchstone TM602A/CE; DOCSIS 2.0, NCS based, 110-220V Power Supply with CEE7 European Style Plug, Standard Gift Box Packaging
722809	Touchstone TM602A/NA; DOCSIS 2.0, NCS based, 110V Power Supply w/ NEMA 1-15 NA Plug, Bulk Packaging (Orders should be placed in multiples of 10)
722084	Touchstone TM602A/NC; DOCSIS 2.0, NCS based, 110-220V, No Power Cord Included – Power cords can be ordered separately based off country preference, Bulk Packaging (order should be in multiples of 10)
722805	Power Cord, North America, 6FT (1.8M) with Polarized Plug for TM602A/NA or TM602A/NC
721197	Power Cord, European, 6FT (1.8M) with Non-Polarized Plug for TM602A/CE, TM602B/CE, or TM602A/NC
721196	Power Cord, Argentina, 6.5FT (2.0M) with Polarized Plug for TM602A/NC

Specifications are subject to change without notice.

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