



Touchstone® TM601A Telephony Modem Technical Specification

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)	1.20 (0.54)
Diagnostic LEDs	Power, DS, US, Online, Link, Telephone

Interfaces

RF Interface	External 'F' type connector
Data Interfaces	10/100 Base-T Ethernet RJ-45
Telephony Interface	RJ-11 Input
Power (nominal)	100/240 VAC, 50/60 Hz

Telephony

Supervisory Voltage	48 V dc nominal
Maximum Loop Length to CPE	500 ft (457M) of 26 AWG (0.4 mm) wire
Ringing Load Capacity	5 REN total
Provisionable High Loop Current Mode	No
Telcordia™ GR 1089 (Lightning and Power Surge) Tested	No
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.)	up to 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;
T.38 Fax Relay; Enhanced codec software support planned (G.726, G.728, G.729) PacketCable 1.0 / 1.5 Based;
DOCSIS 2.0 Based;
RFC3261 SIP: Session Initiation Protocol;
UL® 60950, IEC60950 (CB Scheme), IRAM, NOM;
FCC Part 15 Class B, CE EMC; RoHS, WEEE

Touchstone® TM601A Ordering Information

Part Number	Description
721048	Touchstone Telephony Modem TM601A/NA (Bulk Pack of 10 modems, DOCSIS 2.0, NCS based, Integrated Universal 100-240V Power Supply, North American Power Cord Included)
721051	Touchstone Telephony Modem TM601A/NC (Bulk Pack of 10 modems, DOCSIS 2.0, NCS based, Integrated Universal 100-240V Power Supply No Power Cords supplied – order separately)
722805	North American Power Cord, NEMA 1-15/C7 Plug
721197	European Power Cord, CEE7/16 Plug
721196	Argentine Power Cord, IRAM 2073/C7 Plug

Specifications are subject to change without notice.

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