



Touchstone® TM602C Telephony Modem Technical Specifications

Specifications

Physical

Operating Temperature °F (°C)	32 to 104 (0 to 40)
Operating Relative Humidity (Min-Max)	5-95% (Non condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Color	Black
Dimensions (H x W x D) in. (cm), excluding F-connector	7.3 x 1.8 x 6.3 (18.5 x 4.6 x 16.0)
Unit Weight lbs (kg)	0.95 (0.43)
Diagnostic LEDs	Power, DS, US, Online, LAN, Tel1, Tel2

Interfaces

RF Interface	External, 75 ohm, 'F' type connector
Data Interface	10/100 Base-T Ethernet (RJ-45 connector), Metallic Color
Telephony Interfaces	2 Telephone lines, RJ-11 ("Tel 1" and "Tel 2", Gray Color) 1 Alternate Service Provider line, RJ-11 ("Line", Black Color)
Power Input	100 VAC, 50/60 Hz (nominal), non-polarized AC inlet
Reset Switch	Recessed, Momentary, SPST switch

Telephony

Supervisory Voltage	48 VDC (nominal)
Maximum Loop Length to CPE	1500 ft (457m) of 26 AWG (0.4mm) wire
Ringing Load Capacity	6 REN total; 3 per line
Provisionable High Loop Current Mode	Yes (40mA constant current boost mode)
Telcordia™ GR 1089 (Lightning and Power Surge) Tested	Yes

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
High-Frequency Rejection / MOCA Filter Embedded	Yes

ARRIS Technical Specifications

Specifications (continued)

RF Upstream

Frequency Range (MHz)	5-65
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
RFC 2453 (RIP v2) and RFC 2082 (MD5 authentication)
DOCSIS 2.0 based
PacketCable 1.0 & 1.5 based
RFC3261 SIP: Session Initiation Protocol
CB Scheme IEC 60950
Country-Specific Regulatory Compliance – JATE, VCCI, PSE
RoHS, WEEE

Ordering Information

Part Number	Description
721056	Touchstone TM602C/JA, DOCSIS 2.0 / PacketCable 1.0-1.5 Compliant E-MTA Integrated 100 VAC, 50/60 HZ Power Supply w/ 6 ft Japanese power cord (JISC8303 plug style) included Shipping kit also includes Quick Install Guide and End-User License Agreement

Specifications are subject to change without notice.

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