

Touchstone® DOCSIS® 3.0 8x4 Telephony Modem TM804G

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) 9.7 x 2.1 x 7.1 (21.6 x 5.3 x 18.0) - excluding F-connector Weight lbs (kg) 1.5 (0.68) - excluding battery Battery Back-up 6-Hour Option Lithium-ion 2.2 AH Capacity, 0.25 lbs (0.11 kg) Battery Battery Back-up 12-Hour Option Lithium-ion 4.4 AH Capacity, 0.50 lbs (0.22 kg) Battery Battery Back-up 18-Hour Option Lithium-ion 6.6 AH Capacity, 0.75 lbs (0.33 kg) Battery Battery Back-up 24-Hour Option Lithium-ion 8.8 AH Capacity, 1.0 lbs (0.44 kg) Battery -4 to 140 (-20 to 60) Battery Storage Temperature °F (°C) Note: Storage above 77°F (25°C) reduces battery life Telemetry AC Fail, Battery Low, Battery Missing, Replace Battery Diagnostic LEDs Power, DS, US, Online, Link, Tel 1, Tel 2, Tel 3, Tel 4, Battery Interfaces RF Interface External 75 ohm 'F' type connector Data Interface 10/100/1000 Base-T Ethernet RJ-45 Telephony Interface 4 lines; RJ-14 (Line1/2, Line 3/4"), RJ-11 (Line 2, Line 4) Input Voltage (nominal) 115-240 VAC 50/60 Hz Power Consumption (W) 6 (idle), 16 (max.)

Telephony

Supervisory Voltage 48 V DC nominal

1000 ft (305M) of 26 AWG (0.4 mm) wire Maximum Loop Length to CPE

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 8 **Number of Tuners**

Capture Bandwidth (MHz) 96 (per tuner, 192 MHz total)

Modulation (QAM) 64 or 256 Data Rate (Mbps, Theoretical)

Note: Maximum raw DOCSIS rate; actual data throughput is less

due to overhead, configuration, and RF conditions

RF Input Sensitivity Level (dBmV) -15 to +15 Carrier Bandwidth 6 MHz MoCA® Immunity Filter

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Specifications Continued

Specifications continued	
RF Upstream	
Frequency Range (MHz)	5-42
Bonded Channels	up to 4
Modulation	QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM (S-CDMA only)
Modulation Bandwidth (kHz)	TDMA: 200, 400, 800, 1600, 3200, 6400 S-CDMA: 1600, 3200, 6400
Data Rate (Mbps, Theoretical)	up to 122 Note: Maximum raw DOCSIS rate; actual data throughput is less due to overhead, configuration, and RF conditions
RF Output Level (dBmV - one cha	nnel)
	TDMA: +17 to 61 (QPSK); +17 to 58 (8QAM, 16QAM); +17 to 57 (32QAM, 64QAM) Note: A-TDMA max output power reduced 3dB when transmitting 2 channels and 6dB when transmitting 3 or 4 channels.
	S-CDMA: +17 to +56 (all modulations)
	Note: S-CDMA max output reduced 3dB when transmitting 2 or more channels.
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75
Standards	
DOCSIS 3.0	RoHS, WEEE
PacketCable 1.0 and 1.5	IEEE 802.3, IEEE 802.3ab
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	Enhanced codec support (G.726, G.728, G.729E)

Ordering Information

CB

Part Number	Description
793994	Touchstone TM804G/NA-0 DOCSIS 3.0 / PacketCable 1.5 compliant E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Includes Quick Install Guide, and Ethernet cable; Battery not included.
793995	Touchstone TM804G/NA-6 DOCSIS 3.0 / PacketCable 1.5 compliant 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-lon Battery Pack for up to 6 hours of battery back-up, Quick Install Guide, and Ethernet cable.
793996	Touchstone TM804G/NA-12 DOCSIS 3.0 / PacketCable 1.5 compliant E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Includes one, 4-cell, 4.4AH, Li-lon Battery Pack for up to 12 hours of battery back-up, Quick Install Guide, and Ethernet cable.
793997	Touchstone TM804G/NA-24 DOCSIS 3.0 / PacketCable 1.5 compliant E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Includes one, 8-cell, 8.8AH, Li-lon Battery Pack for up to 24 hours of battery back-up, Quick Install Guide, and Ethernet cable.
794004	Touchstone TM804G/CE-0 DOCSIS 3.0 / PacketCable 1.5 compliant E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot CEE 7/16 power cord. Includes Quick Install Guide, and Ethernet cable; Battery not included.
794005	Touchstone TM804G/CE-12 DOCSIS 3.0 / PacketCable 1.5 compliant E-MTA with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot CEE 7/16 power cord. Includes one, 4-cell, 4.4AH, Li-lon Battery Pack for up to 12 hours of battery back-up, Quick Install Guide, and Ethernet cable.

T.38 Fax Relay

Specifications are subject to change without notice.

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