

Touchstone® TM604G Telephony Modem with Integrated Battery Backup Technical Specification

Specifications

Physical

Operating Temperature °F (°C) 32 to 122 (0 to 50)

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) 2.0 x 10.3 x 7.4, (5.1 x 26.2 x 18.8) - excluding F-connector

Weight lbs (g)

No battery included: 1.20 (554)

Battery: 4 cell Battery Back-up Option for up to 12 hours of battery back-up (439)

Backup Capacity Lithium-ion 4.4 Ah

Battery Dimensions (W x H x D) 1.85 x 1.2 x 5.7 (4.7 x 3.0 x 14.5)

in.(cm)

Weight lbs (g) 0.50 (228)

Battery: 8 cell Battery Back-up Option for up to 24 hours of battery back-up

Backup Capacity Lithium-ion 8.8 Ah

Battery Dimensions (W x H x D) in.

cm)

Weight lbs (g) 1.0

Telemetry AC Fail, Battery Low, Battery Missing, Replace Battery

Diagnostic LEDs Power Telephone 1
DS Telephone 2
US Telephone 3

US Telephone 3 Online Telephone 4 Link Battery

2.0 x 2.0 x 6.9 (5.1 x 5.1 x 17.6)

Interfaces

RF Interface External 'F' type connector

Data Interfaces 10/100 Base-T Ethernet RJ-45

Telephony Interface 4 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2"), RJ-14 ("Line 3/4"), RJ-11 ("Line 4")

Power (nominal) 100/240 VAC, 50/60 Hz

Telephony

Supervisory Voltage 48 VDC nomina

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

res

Programmable Interface for Worldwide

Applications

Yes (supports multiple country templates)

Technical Specification

ARRIS Technical Specifications

Specifications Continued...

specifications continued	
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
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

Notes:

- 1. Note: Storage above 77°F (25°C) will significantly reduce life of the battery and is not recommended.
- Battery back-up times are typical and can be influenced by the age of the battery, the charging state, storage conditions and operating temperature as well as factors such as data activity and length of active telephone calls. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

ARRIS Technical Specification

Ordering Information

Part # Description

- 721068 Touchstone TM604G/NA-0 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with NEMA 1-15. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide. NO battery included
- 721070 Touchstone TM604G/NA-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 4-cell 4.4AHr Li-Ion Battery Pack. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with NEMA 1-15. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
- 728903 Touchstone TM604G/NA-16 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 8-cell 8.8 AHr Li-Ion Battery Pack. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with NEMA 1-15. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
- 721071 Touchstone TM604G/CE-0 DOCSIS 2.0 / PacketCable 1.0/1.5 Complaint E-MTA. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with CEE 7/16 "Euro" Power Plug. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide. NO battery included
- 721073 Touchstone TM604G/CE-8 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 4-cell 4.4 AHr Li-Ion Battery Pack. Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with CEE 7/16 "Euro" Power Plug. Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
- 728904 Touchstone TM604G/CE-16 DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA with 8-cell 8.8 AH Li-lon Battery Pack Integrated 100-240 VAC, 50/60 HZ Power supply w/ 6 foot power cord with CEE 7/16 "Euro" Power Plug Includes Quick Install Guide, Ethernet Cable, and CD-ROM with Users Guide.
- 718005 One 4-Cell, 4.4 Ah, Li-Ion Battery Pack TM604G, also fits TM502G/H, TM602G/H, TM504G/H, and TM608G
- 718006 Kit of 30, 4-Cell, 4.4 Ah, Li-Ion Battery Packs for TM604G, also fits TM502G/H, TM602G/H, TM504G/H, and TM608G
- 721192 8-Cell, 8.8 Ah, Li-Ion Battery Pack for TM604G, also fits TM602G/H and TM504G/H (Cannot be used in TM502G/H or TM608G).

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