



Touchstone® TM602G Telephony Modem with Integrated Battery Back-up (Phase 2) Technical Specifications

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 grey
Dimensions (H x W x D) in. (cm)	8.6 x 2.1 x 7.1 (21.8 x 5.3 x 18.0) - excluding F-connector
No Battery Configuration	
Backup Capacity	n/a
Battery Dimensions in. (cm)	n/a
Overall Unit Weight – no Pack installed – in lbs (kg)	1.25 (0.57)
8 Hour Battery Configuration (Short, Light or Dark-Grey Case)	
Backup Capacity	Lithium-ion 2.2 Ah or 2.4 Ah
Battery Dimensions in. (cm)	1.2 x 1.85 x 3.1 (3.0 x 4.7 x 7.9)
Overall Unit Weight -- Pack Installed – in lbs (kg)	1.55 (0.70)
12 Hour Battery Configuration (Long, Dark-Grey Case)	
Backup Capacity	Lithium-ion 4.4 Ah
Battery Dimensions in. (cm)	1.2 x 1.85 x 5.7 (3.0 x 4.7 x 14.5)
Overall Unit Weight – Pack Installed – in lbs (kg)	1.75 (0.79)
24 Hour Battery Configuration (Long, Thick, Dark-Grey Case) – <i>Battery Pack must be purchased separately</i>	
Backup Capacity	Lithium-ion 4.4 Ah
Battery Dimensions in. (cm)	1.2 x 1.85 x 5.7 (3.0 x 4.7 x 14.5)
Overall Unit Weight – Pack Installed – in lbs (kg)	2.35 (1.07)
Battery Storage Temperature °F (°C)	-4 to 140 (-20 to 60) (Note 1)
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery
Diagnostic LEDs	Power, DS, US, Online, Link, Telephone 1, Telephone 2, Battery

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)	115 VAC 60 Hz

ARRIS Technical Specifications

Specifications Continued

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

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

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
RFC 2453 (RIP v2) and RFC 2082 (MD5 authentication)
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

Notes:

1. Storage above 77°F (25°C) will significantly reduce life of the battery and is not recommended.
2. 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. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

ARRIS Technical Specifications

Ordering Information

Part Number	Description
728804	Touchstone TM602G/NA-0, PHASE 2, DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Integrated 115 VAC, 60 HZ Power supply w/ 6 foot power cord with NEMA 1-15 Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide NO battery included
728805	Touchstone TM602G/NA-8, PHASE 2, DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 2-cell 2.2AHr, Li-Ion Battery Pack for up to 8 hours of battery back-up Integrated 115 VAC, 60 HZ Power supply w/ 6 foot power cord with NEMA 1-15 Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide
728963	Touchstone TM602G/NA-12, PHASE 2, DOCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA, Truck Pack Includes 4-cell 2.2AHr, Li-Ion Battery Pack for up to 12 hours of battery back-up Integrated 115 VAC, 60 HZ Power supply w/ 6 foot power cord with NEMA 1-15 Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with Users Guide Truck Pack Packaging (order in increments of 5 units)
718003	Spare 2-Cell, 2.2 Ah, Li-Ion Battery Pack for TM502G/H, TM602G, and TM504G/H
718005	Spare 4-Cell, 4.4 Ah, Li-Ion Battery Pack for TM502G/H, TM602G, and TM504G/H
721192	Spare 8-Cell, 8.8 Ah, Li-Ion Battery Pack for TM602G and TM504G/H (Cannot be used in TM502G/H). Sold separately, no kitted TM602 Phase 2 option available

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