

TG852G DOCSIS[®] 3.0 Residential Gateway with 802.11n, 4 Port Router and 2 Voice Lines

Specifications

Physical			
Operating Temperature °F (°C)	41 to 122 (5 to 40)		
Operating Relative Humidity (Min-Max)	5-85% (Non condensing)		
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)		
Color	Black		
Dimensions (H x W x D) in.	10.5 x 9.7 x 2.4 - excluding F-connector		
Weight Ibs	No battery included: 2.1		
Backup Capacity	Lithium-ion 2.6 Ah for 8 hours operation. Consult ARRIS holdup time options.	for other battery	
Battery Dimensions in.	1.2 x 1.85 x 3.1		
Weight lbs	1.0		
Battery Storage Temperature °F (°C)	-4 to 140 (-20 to 60) Note: Storage above 77 $^\circ$ F (25 $^\circ$ C reduce life of the battery and is not recommended.) will significantly	
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery		
Diagnostic LEDs	Power, DS, US, Online, Ethernet, WiFi, Secure, Tel 1, Tel	2, Battery	
Interfaces			
RF Interface	External 'F' type connector		
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)		
Telephony Interface	2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")		
USB Interface	USB 2.0 Powered Host Port		
Input Voltage (nominal)	100-240 Vac 50/60 Hz		
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 ONL	Y)	
Telcordia™ GR 1089 (Lightning and Power Surge) Tested	Yes		
Programmable Interface for Worldwide Applications	Yes (supports multiple country templates)		
RF Downstream			
Bonded Channels	Up to 8		
Tuner Configuration	2 tuning ranges of 48MHz each supporting 4 bonded channels		
Frequency Range (MHz)	108-1002 DOCSIS		
Carrier Bandwidth (MHz)	6 (DOCSIS)		
Modulation (QAM)	64 or 256		
Data Rate (Mbps Max.)	Up to 320 DOCSIS	Continue to next page	
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Technical Specification

Specifications Continued

RF Upstream		
Bonded Channels	Up to 4	
Frequency Range (MHz)	5 to 42 (DOCSIS)	
Modulation	QPSK, 8 QAM, 16 QAM	l, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)
Data Rate (Mbps Max.)	up to 160	
RF Output Level (dBmV)	ATDMA: +8 to 54 dBn 58 dBmV (QPSK) S-CDMA: +8 to +53 dE	nV (32 QAM, 64 QAM) +8 to 55 dBmV (8 QAM, 16 QAM) +8 to BmV (all modulations)
Automatic Level Adjust	Yes	
Frequency Stability (kHz)	±5	
Output Impedance (Ohms)	75	
Wireless		
Transmit Power Output (EIRP)	18dBm +2/-2dB 802.11b; 15dBm 2/2dB 802.11g/n	
Receive Levels	>-86dBM 802.11b 11m MCS7	nbps; >-76dBm 802.11g 54mbps, >-76dBM 802.11n HT20
Antennas	2 transmit, 3 receive	
Standards		
DOCSIS 3.0 PacketCable 1.0 & 1.5 Codec: G.711, 64 kbps, μ and A-law encoded speech Enhanced codec firmware support (G.726, G.828, G.729E) T.38 Fax Relay		IEEE 802.3, IEEE 802.3ab, IEEE 802.3x IEEE 802.1p, IEEE 802.1Q IEEE Std. 802.11b, 1999 Edition IEEE Std. 802.11g, 2002 Edition IEEE Std. 802.11n WiFi Alliance Certified UL® 60950 FCC Part 15 Class B

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. Actual operating range may vary according to environmental conditions at the time of use.

Ordering Information			
Part Number	Description		
DOCSIS 3.0 Models	PacketCable 1.0/1.5 Compliant Gateway, Integrated 100-240 VAC, 50/60 HZ Power supply with 6 foot power cord . Includes Quick Install Guide, Ethernet Cable, and CD-ROM with users guide		
785197	Touchstone TG852G/CE-0 - CEE 7/16 Euro power plug - battery capable but no battery included		
785199	Touchstone TG852G/CE-8 - CEE 7/16 Euro power plug - 2 cell, Li-Ion Battery Pack for up to 8 hours of battery back-up		
785194	Touchstone TG852G/NA-0 - NEMA 1 power plug - battery capable but no battery included		
785196	Touchstone TG852G/NA-8 - NEMA 1 power plug - 2 $$ cell, Li-Ion Battery Pack for up to 8 hours of battery back-up		
Accessories			
789699	2-Cell, 2.6 Ah, Li-Ion Battery Pack for TG852 (Battery models)		
721198	North American NEMA 1-15 plug Power Cord, 6 foot		
721197	European CEE 7/16 plug Power Cord, 6 foot		

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