

Touchstone[®] TG6452 Cable Voice Gateway



DOCSIS[®] 3.1 Gateway with 802.11ax Wi-Fi

FEATURES

- 2x2 OFDM and OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM DOCSIS® 3.0 channels
- Dual Band Concurrent 4x4:4 2.4GHZ and 5GHz 802.11ax radios
- 1 NBase-T 2.5Gbps Ethernet port
- 2 port Gigabit Ethernet Router
- Switchable upstream filters for 85MHz or 204MHz operation.
- Full Capture Bandwidth Tuner
- MoCA® 2.0 (with channel bonding) for in Home Video and Data distribution over Coax
- Multiple SSID support with DFS channels and Dynamic Channel change
- Multiple operator controlled configuration options

PRODUCT OVERVIEW

The TG6452 Telephony Wireless Gateway delivers the gigabit broadband performance of DOCSIS 3.1. This feature-packed unit is intended to serve as the hub of the subscriber's home or business network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customer's premises.

The TG6452, with its 4x4 802.11ax Dual Band wireless radios, offers superior Wi-Fi performance in dense environments, with high data rates for video over Wi-Fi at increased range. Built-in advanced features to manage the power of Wi-Fi clients offers longer time on battery operation.

The TG6452 is integrated with Plume. When used with additional Wi-Fi Extenders, the solution delivers high-performance Wi-Fi to every corner of the home, while offering ease of use for the consumer and reduced OPEX costs for the service provider. The TG6452 gateway can provide automated network optimization, interworking with the self-configuring extenders, the HomeAssure consumer App and the HomeAssure Cloud management platform for remote management, analytics and diagnostics.



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The switchable US diplex filter is designed to produce superior RF performance and ease of deployment on a DOCSIS 3.1 network. Optimized DRAM, Flash and Multiple embedded processor cores are designed to allow new applications to be deployed on the gateway.

The TG6452 is designed to minimize support costs with multiple provisioning and remote management methods (SNMP, Configuration File, Remote WebGUI access, TFTP, and TR-069/181). Multiple remote access levels (User, Technician and MSO) also allow more ease and flexibility for manual configuration and control.

SPECIFICATIONS Physical		SPECIFICATIONS Interfaces	
Operating Relative Humidity	5-85% (Non condensing)	Date Interfaces (bridged)	1 x 2500 NBase-T 2 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Storage Temperature	-40 to 70°C		
Dimensions (H x W x D)	10.9in x 7.84in x 2.55in 277mm (H) x 199.5mm (D) x 65mm (W)	Analog Telephony Interface	2 lines; RJ-11
		MoCA	MoCA 2.0
Backup Capacity (not supplied)	External BBU	Input Voltage (nominal)	12V DC
Weight	2.6lbs 1.2kg	AC-DC	External
Diagnostic LEDs (Top)	Subsystem based front panel LED for status of Power, US/DS, Online, 2.4GHz, 5GHz, Tel, Battery		

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Up to 32 SCQAM or 2 OFDM	
Full capture tuning range	
108MHz - 1002MHz DOCSIS	
Up to 5Gbps	
-15 dBmV to +15 dBmV (DOCSIS)	
Up to 8 SCQAM or 2 OFDMA	
5MHz to 85MHz	
85MHz-204MHz	
Up to 1Gbps	
+65 dBmV (OFDMA) +54 dBmV (64 QAM, 4-8 upstreams) +57 dBmV (64 QAM, single upstream) +58 dBmV (16 QAM, single upstream)	

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SPECIFICATIONS	

Wireless	
Frequency Range	2.4GHz and 5GHz
Transmit Power (EIRP)	+34 dBm (2.4GHz, MCS0, HT20) +29 dBm (2.4GHz, MCS7, HT20) +34 dBm (5GHz, MCS0, HT20) +30 dBm (5GHz, MCS9, VHT80)
Spatial Streams	4 for 2.4GHz, 4 for 5GHz
Receive Levels	2.4GHz -<-88dBm 802.11n (MCS0), <-71dBm 802.11n (MCS7), HT20 5.0GHz -<-89dBm 802.11ac (MCS0) , <-60dBm 802.11ac (MCS9), VHT80
Antennas	8 transmit, and 8 receive (total)
MoCA	
Frequency Range	1150MHz –1500MHz
Network Channel Bandwidth	50MHz
Max Transmit Power	+ 9 dBm max (adjustable)
Max PhyRate	1400 Mbps
Application Data Rate	800 Mbps bidirectional combined

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