ARRIS

Touchstone® TG8442 Cable Voice Gateway

DOCSIS® 3.1 Gateway with 802.11ac Wi-Fi

FEATURES

- 2x2 OFDM and OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM DOCSIS® 3.0 channels
- Full Capture Bandwidth Tuner
- Multi Application Processor Technology
- 4 port Gigabit Ethernet Router
- Switchable upstream filters for 42MHz or 85MHz operation.
- Dual Band Concurrent 4x4:4 5GHz 802.11ac Wave2
  and 3x3 2.4GHz 802.11n for high performance Wi-Fi
- Multiple SSID support with DFS channels and Dynamic Channel change
- Single PCB design
- Multiple operator controlled configuration options
- ARRIS HomeAssure™ Enabled

PRODUCT OVERVIEW

The TG8442 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 TG8442, with its 4x4 802.11ac and 3x3 802.11n Dual Band Wireless radios, offers superior Wi-Fi performance enabling video over Wi-Fi. The TG8442 is ARRIS HomeAssure Enabled. 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 TG8442 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.

The switchable US diplex filter is designed to produce superior RF performance, surge protection 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 TG8442 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	
Operating Temperature	0 to 40°C
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature	-40 to 70°C
Dimensions (H x W x D)	11.1in x 2.95in x 8.07in 282mm x 75mm x 205mm
Backup Capacity (not supplied)	External BBU
Weight	2.1lbs 0.95kg
Diagnostic LEDs (Top)	Integrated LED for status of Power, US/DS, Online, 2.4GHz, 5GHz, Tel, Battery

SPECIFICATIONS	
Interfaces	
RF Interface	1 External 'F' type connector
Date Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Analog Telephony Interface	2 lines; RJ-11
Input Voltage (nominal)	12V DC
AC-DC	External

SPECIFICATIONS

RF Downstream

Bonded Channels	Up to 32 SCQAM or 2 OFDM
Tuner Configuration	Full capture tuning range
Frequency Range	108MHz - 1002MHz DOCSIS
Data Rate	Up to 5Gbps
RF Input Sensitivity Level	-15dBmV to +15dBmV (DOCSIS)

RF Upstream

Bonded Channels	Up to 8 SCQAM or 2 OFDMA
Frequency Range	5MHz to 85MHz
Configurable Diplex Filter	42MHz-85MHz
Data Rate (Mbps Max.)	Up to 1Gbps
RF Output Level	+65 dBmV (OFDMA) +54 dBmV (64 QAM, 4-8 upstreams) +57 dBmV (64 QAM, single upstream) +58 dBmV (16 QAM, single upstream)

SPECIFICATIONS

Wireless

Frequency Range	2.4GHz and 5GHz
Transmit Power (from any antenna)	+20 dBm (MCS7, 2.4GHz) +22 dBm (MCS7, 5GHz, HT20) +22 dBm (MCS9, 5GHz, VHT40)
Spatial Streams	3 for 2.4GHz, 4 for 5GHz
Receive Levels	2.4GHz -<-94.5dBm 802.11n (MCS0) <-74.5dBm 802.11n (MCS7), HT20 5.0GHz -<-89dBm 802.11ac (MCS0) , <-71.5dBm 802.11ac (MCS9), VHT80
Antennas	7 transmit, and 7 receive (total)

CUSTOMER CARE

Contact Customer Care for product information and sales:

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