

# Touchstone® TG3442 Cable Voice Gateway

DOCSIS® 3.1 Gateway with 802.11ac Wi-Fi

## FEATURES

- 2x2 OFDM and OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM EuroDOCSIS® 3.0 channels
- Full Capture Bandwidth Tuner
- Multi Processor Technology for enhanced application support
- Switchable US diplexer up to 204MHz
- 4 port Gigabit Ethernet Router
- 3x3 2.4GHz 802.11n
- 4x4 5GHz 802.11ac Wave 2
- Mu-MiMO and Beamforming Support
- USB hostPort
- Advanced Firmware support for IPV6, DS-Lite, and SoftGRE
- Two FXS lines of carrier-grade VoIP with HD voice support
- ARRIS HomeAssure™ ready

## PRODUCT OVERVIEW

The TG3442 Telephony Wireless Gateway supporting DOCSIS 3.1 allows multi-gigabit data rates to be delivered to cable service provider's home and small business customers. The TG3442 with its 4x4 802.11ac Dual Band radios, offers superior Wi-Fi performance enabling reliable Ultra HD video over Wi-Fi.

The fixed diplexer is designed to produce superior RF performance and ease of deployment on a DOCSIS 3.1 network. High capacity DRAM, Flash and Multiple embedded processor cores are designed to allow new applications to be deployed on the gateway. This feature-packed unit is intended to serve as the hub of the subscriber's network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customers premises.

To minimize support OPEX costs the TG3442 provides features for remote management and diagnostics. Multiple provisioning methods (SNMP, Configuration File, Remote WebGUI access, TFTP, and TR-069/181) allow custom designed setups to be applied to monitor the end user more efficiently. Multiple remote access levels (User 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)	282mm x 75mm x 205mm
Weight	0.95Kg
Diagnostic LED's (Front)	Integrated LED for status of Phone, Internet, WPS, Wi-Fi and Power
Diagnostic LED's (Rear)	Ethernet Link/Speed
Voice	
Standards Supported	EuroPacketCable™ NCS Network-based call signaling protocol (PKT-SP-EC-MGCP) RFC 3261 SIP RFC 2805 MGCP
Codecs Supported	G.711, G.722, G.729ab
FAX	T.38, G.711 Fax Passthrough
REN Capability	5 REN / Line, 10 REN Total
Voice supplementary services	Call Waiting Call Hold 3PTY Call Caller ID Voice Activity Detection (VAD) Comfort Noise Generation (CNG) Echo cancellation: G.165 G.168 up to 16 ms
DTMF tone relay	RFC 2833
Pulse dialing	DTMF/pulse tones Pulse/DTMF tones conversion
RTP layer	RFC 1889 RFC 1890
Line Card Support	Flexible LC Templates

## SPECIFICATIONS - CONTINUED

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
USB	1
RF Downstream	
Bonded Channels	Up to 32 SCQAM and/or 2 OFDM
Tuner Configuration	Full capture tuning range
Frequency Range	108-254MHz-1218MHz DOCSIS
Data Rate	Up to 5Gbps
RF Input Sensitivity Level	-15dBmV to +15dBmV (DOCSIS)
RF Upstream	
Bonded Channels	Up to 8 SCQAM and/or 2 OFDMA
Frequency Range	5MHz to 85MHz or 5MHz to 204MHz
Data Rate	Up to 1Gbps
RF Output Level	+65 dBmV (64QAM, single US) +57 dBmV (64QAM, 4-8 US) +65 dBmV (16QAM, single US) +65 dBmV (OFDMA)
Wireless	
Frequency Range	2.4GHz and 5GHz
Transmit Power (from any antenna)	+29dBm (MCS7, 2.4GHz) +28 dBm (MCS7, 5GHz, HT20) +26 dBm (MCS9, 5GHz, VHT40)
Spatial Streams	3 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	7 transmit, and 7 receive (total)

## CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

## SPECIFICATIONS - CONTINUED

## Network &amp; Services

Network Protocols	Dual stack IP (IPv4, IPv6) TCP, UDP ARP, ICMP, DHCP TFTP, SNMP, HTTP(s), Telnet
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Parental Control	URL-based website filtering Time-based access control
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Routing modes	Transparent bridging Routed modes
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Wireless QoS	WMM (BE, BK, VI, VO access categories) queuing and scheduling
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## SPECIFICATIONS - CONTINUED

## Management

SNMP	SNMP v1, SNMP v2, SNMP v3
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Web-based user interface management and administration	User-friendly GUI via HTTP Command Line Interface (CLI)
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CPE WAN Management Protocol (CWMP)	TR-069 TR-98 TR-181
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## Security

Docsis security	Baseline Privacy Interface Plus (BPI+)
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SW security	Stateful Packet Inspection Firewall (SPIF) Customizable firewall security levels Intrusion detection and prevention DeMilitarized Zone (DMZ) Multilevel access policy
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## ORDERING INFORMATION

Model	Description
1001411	TG3442A/NT,WIRELESS 2-LINE GATEWAY, DOCSIS 3.1, 2X2, DOCSIS 3.0,32X8,220-240V,802.11AC, NET

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