Touchstone® TG2482 Cable Voice Gateway

DOCSIS® 3.0 Gateway with 802.11ac Wi-Fi

FEATURES

- 24x8 Channel Bonding.
- 1Gbps Downstream support with internal Spectrum Analyzer
- DOCSIS® 3.0 compliant design
- Dual Mode Scanning Support
- Full Capture Bandwidth Tuner
- Multi Processor Technology Processor
- 4 port Gigabit Ethernet Router
- 3x3 2.4GHz 802.11n
- 4x4 5GHz 802.11ac Wave 2
- Mu-MiMO and Beamforming Support
- USB 2.0 Host Port
- Advanced Firmware support for IPV6, DS-Lite, and SoftGRE
- Two FXS lines of carrier-grade VoIP with HD voice support
- ARRIS HomeAssure™ Compatible

PRODUCT OVERVIEW

Operators are wanting to push the limits on DOCSIS 3.0 performance, and the user experience delivered to the customer. The TG2482 with its superior 802.11ac Dual Band Wireless radios, Ethernet and USB interfaces can deliver this performance while also offering improvements in home coverage above that of other models. 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.

Residential gateway support has always been a concern of the operator. The TG2482 distinguishes itself with capabilities to minimize these support needs. 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.

The TG2482 will help lead the future to advanced home and small office services.

Touchstone® TG2482A Cable Voice Gateway

ARRIS

SPECIFICATIONS

Interfaces

RF Interface	1 External F-type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Analog Telephony Interface	2 lines; RJ-11
USB	1 Host port 2.0
Input Voltage (nominal)	12V DC
AC-DC	External (100V-240V), 24W
WPS Button	1

RF Downstream

Bonded Channels	Up to 24 SCQAM
Tuner Configuration	Full capture tuning range
Frequency Range	108-1002 MHz DOCSIS
Data Rate	Up to 1 Gbps
RF Input Sensitivity Level	-15 to +15 dBmV (DOCSIS)

RF Upstream

Bonded Channels	Up to 8 SCQAM
Frequency Range	5 MHz to 85 MHz
Data Rate	Up to 240 Mbps
RF Output Level	+57 dBmV (64 QAM, single upstream) +54 dBmv (64QAM, 4-8 upstreams) +58 dBmV (16 QAM, single upstream) +56 dBmV (SCDMA, single upstream)

SPECIFICATIONS - CONTINUED

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)mm	236 x 193 x 63 (excluding F- connector)
Weight	0.7 kg
Diagnostic LEDs (Front)	Power, US/DS, Online, 2.4GHz, 5GHz, Tel1, Tel2, WPS
Diagnostic LEDs (Rear)	Ethernet Link/Speed

Voice

Standards Supported	PacketCable™ Network-based call signalling protocol (PKT-SP-EC-MGCP) RFC 3261 SIP RFC 2805 MGCP
Codecs Supported	G.711, G.722, G.729
FAX	T.38, G.711 Fax Passthrough
REN Capability	3 REN / Line, 6 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 16ms
	RFC 2833
	DTMF/pulse tones
RTP layer	RFC 1889 RFC1890
Line Card Support	Flexible LC Templates

CUSTOMER CARE

Contact Customer Care for product information and sales:

• United States: 866-36-ARRIS

• International: +1-678-473-5656

www.arris.com

SPECIFICATIONS - CONTINUED

Network & Services

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

SPECIFICATIONS - CONTINUED

Wireless

Frequency Range	2.4 GHz and 5 GHz
Transmit Power EIRP	+25.1dBm (MCS0, 2.4GHz, HT20) +23.1dBm (MCS7, 2.4GHz, HT20) +27.3dBm (MCS0, 5GHz, VHT20) +23.8dBm (MCS9, 5GHz, VHT80)
Spatial Streams	3 for 2.4 GHz, 4 for 5 GHz
Receive Levels	87dBm 802.11n (MCS0, 2.4GHz HT20) 54dBm 802.11ac (MCS9, 5GHz, VHT80)
Antennas	7 transmit, and 7 receive (total)

Security

DOCSIS Security	Baseline Privacy Interface Plus (BPI +)
SW Security	Stateful Packet Inspection Firewall (SPIF) Customizable firewall security levels Intrusion detection and prevention Demilitarized Zone (DMZ) Multilevel access policy

ORDERING INFORMATION

Model	Description
1001545	TG2482A/NA,D3.0,802.11AC,DBC,1-USB/4-ENET,100-240VAC,85MHZ,PHASE 2,ROC
1001184	TG2482AP2/CE,D3.0,802.11AC,DBC,1-USB/4-ENET,200-220VAC,85MHZ,EURO CORD
1001327	TG2482B/CE-85,EURO,D3.0,802.11AC,DBC,1-USB/4-ENET,200-240VAC,85MHZ,PHASE 2,CE CORD
1001326	TG2482B/UK-85,D3.0,802.11AC,DBC,1-USB/4-ENET,200-240VAC,85MHZ, UK CORD

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