

# TG2482 Cable Voice Gateway

24x8 DOCSIS® 3.0 Gateway with dual-band 802.11ac Wi-Fi

## FEATURES

- 24x8 Channel Bonding.
- 1Gbps Downstream support with internal Spectrum Analyzer
- DOCSIS® 3.0 certified design
- Full Capture Bandwidth Tuner
- IPv6 Logo Certified
- Multi Processor Technology with a 1.2GHz Application 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™ Enabled

## PRODUCT OVERVIEW

The TG2482 is a high-performance, high quality home gateway for the delivery of high-speed broadband, VoIP telephony and whole-home Wi-Fi. 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 customer's premises. Featuring 24x8 DOCSIS 3.0 channel bonding and the superior performance of 4x4 802.11ac Dual-Band Wi-Fi, Ethernet and USB interfaces.

The TG2482 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.

The TG2482 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 TG2482 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 diagnostics.





### Potential Interface Speeds

Wi-Fi	2160Mbps
DOCSIS Downstream	960Mbps
USB2.0	480Mbps
DOCSIS Upstream	240Mbps

#### 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)	236mm x 150mm x 62mm (excluding 'F' connector)
Weight	0.7Kg
Diagnostic LEDs (Front)	Power, US/DS, Online, 2.4GHz, 5GHz, Tel1, Tel2, WPS
Diagnostic LEDs (Rear)	Ethernet Link/Speed
Front Switches	Wi-Fi On/Off, WPS

##### Interfaces

RF Interface	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 Interface	USB 2.0 Powered Host Port
Input Voltage (nominal)	12V DC
Input Current (max)	2.5 Amps

#### SPECIFICATIONS - CONTINUED

##### Telephony

Supervisory Voltage	48 V DC nominal
Ringing Load Capacity	6 REN total; 3 per line
Provisionable High Loop Current Mode	Yes (40mA constant current source)
Codec Support	G.729, G.711, G.722

##### RF Downstream

Bonded Channels	Up to 24
Tuner Configuration	Full capture tuning range
Frequency Range	108-1002 MHz
Data Rate	> 960 Mbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

##### RF Upstream

Bonded Channels	Up to 8
Frequency Range	5 to 42 or 5 to 85 MHz
Data Rate	Up to 240 Mbps max.
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

### Wireless 2.4GHz

Transmit Power (EIRP) +21.5 dBm (802.11n MCS0, HT20)  
+21.5 dBm (802.11n MCS7, HT20)

Spatial Streams 3

Receive Levels <-85dBm 802.11n (MCS0,HT20)  
<-68dBm 802.11n (MCS7, HT20)

Antennas 3 transmit and 3 receive

### Wireless 5GHz

Transmit Power (EIRP) +23.5 dBm (802.11ac MCS0,VT20)  
+23.5 dBm (802.11ac MCS9,HT80)

Spatial Streams 4

Receive Levels <-87dBm 802.11ac (MCS0,VT20)  
<-65dBm 802.11n (MCS7,HT40)  
<-54dBm 802.11ac (MCS9,VHT80)

Antennas 4 transmit, and 4 receive

## ORDERING INFORMATION

Model	Description
1000448	TG2482A/NA,D3.0,802.11AC,DBC,1-USB/4-ENET, 100-240VAC,42MHZ
1000954	TG2482A/NA-85, 2 LINE WIRELESS EMTA, D3.0, 24X8,802.11AC,DBC,115-230VAC, 85MHZ
1000994	TG2482A/CE-85,D3.0,802.11AC,DBC,1-USB/4-ENET, 100-240VAC,85MHZ, CE CORD

## CUSTOMER CARE

Contact Customer Care for product information and sales:

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