

TG2492S

Wireless Gateway

FEATURES:

- 24x8 Channel Bonding
- 1Gbps Downstream support with internal Spectrum Analyzer
- DOCSIS® and EuroDOCSIS® 3.0 compliant design
- Dual Mode Scanning Support
- Full Capture Bandwidth Tuner
- Multi Processor Technology with a 1.2GHz Intel Atom Core Application Processor
- 4 port Gigabit Ethernet Router
- 2x2 2.4GHz 802.11n Radio
- 3x3 5GHz 802.11ac High Power Radio
- 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



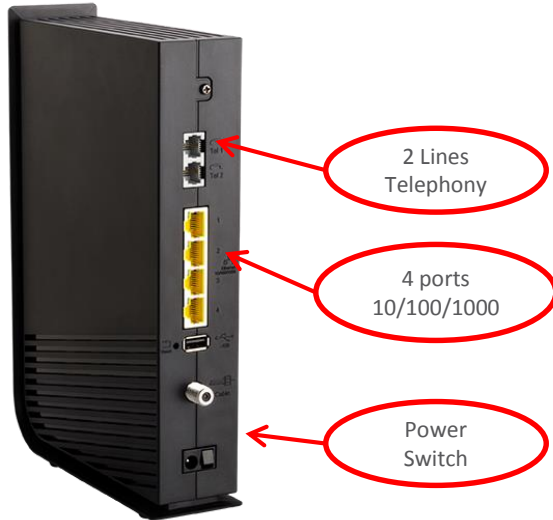
PRODUCT OVERVIEW:

Operators are wanting to push the limits on DOCSIS 3.0 performance and the user experience delivered to the customer. The TG2492S 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 subscribers 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 TG2492S 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, Cusadmin, and MSO) also allow more ease and flexibility for manual configuration and control.

The TG2492S will help lead the future to advanced home and small office services.

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Interface Speeds

WiFi	1600Mbps
DOCSIS Downstream	1334Mbps
USB2.0	480Mbps
DOCSIS Upstream	240Mbps

Specifications

Physical

Operating Temperature °C	0 to 40
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature °C	-40 to 70
Dimensions (H x W x D) mm	236 x 160 x 52 (excludes "F" connector)
Weight kgs.	.7
Diagnostic LED's (Front)	Power, US/DS, Online, 2.4GHz, 5GHz, Tel1, Tel2, WPS
Diagnostic LED's (Rear)	Ethernet Link/Speed
Front Switches	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)	12VDC
Input Current (max)	2.5Amps

Telephony

Supervisory Voltage	48 Vdc 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, (Option for 16)
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108-1002
Data Rate (Mbps Max.)	> 1 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS))

RF Upstream

Bonded Channels	Up to 8, (Option for 4)
Frequency Range (MHz)	5 to 42 or 5 to 85 depending on model
Data Rate (Mbps Max.)	up to 240
RF Output Level (dBmV)	+57 dBmV (64 QAM, single upstream) +54dBmV (64QAM, 4-8 upstreams) +58dBmV (16 QAM, single upstream) +56 dBmV (SCDMA, single upstream)

Wireless 2.4GHz

Transmit Power (from any antenna)	+20dBm (802.11n MCS0, HT20) +15dBm (802.11n MCS7, HT20)
Spatial Streams	2
Receive Levels	<-85dBm 802.11n (MCS0,HT20) <-68dBm 802.11n (MCS7, HT20)

Antennas 2 transmit and 2 receive

Wireless 5GHz

Transmit Power (from any antenna)	+21 dBm (802.11ac MCS0,VT20) +18.5 dBm (802.11n MCS7,HT40)
Spatial Streams	3
Receive Levels	<-87dBm 802.11ac (MCS0,VT20) <-65dBm 802.11n (MCS7,HT40) <-54dBm (802.11ac, MCS9,VHT80)
Antennas	3 transmit, and 3 receive (per band)

Note: WiFi Powers and channels may be limited by the country of operation.

Ordering Information

Model	Description
804007	TG2492S/CE, 65MHz Upstream, 220VAC Adapter, CEE7/16 cord
804008	TG2492S/CE-85, 85MHz Upstream, 220VAC Adapter, CEE7/16 cord
804013	Euro Power Adapter 12VDC, 2.5A, 195-264VAC, 47-63Hz
722197	CEE7/16 Power Cord