

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.

TG2492S
Wireless Gateway



2 Lines
Telephony

4 ports
10/100/1000

Power
Switch

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

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|----------------------------|---|
| 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

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|-----------------------------------|---------------------------|
| 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

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|------------------------|--|
| 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 |