

# BWG-3511 Broadband Wireless Cable Modem Gateway



World's **FIRST**  
**CableLabs**  
certified



## Wireless Cable Modem Gateway

### Key Features

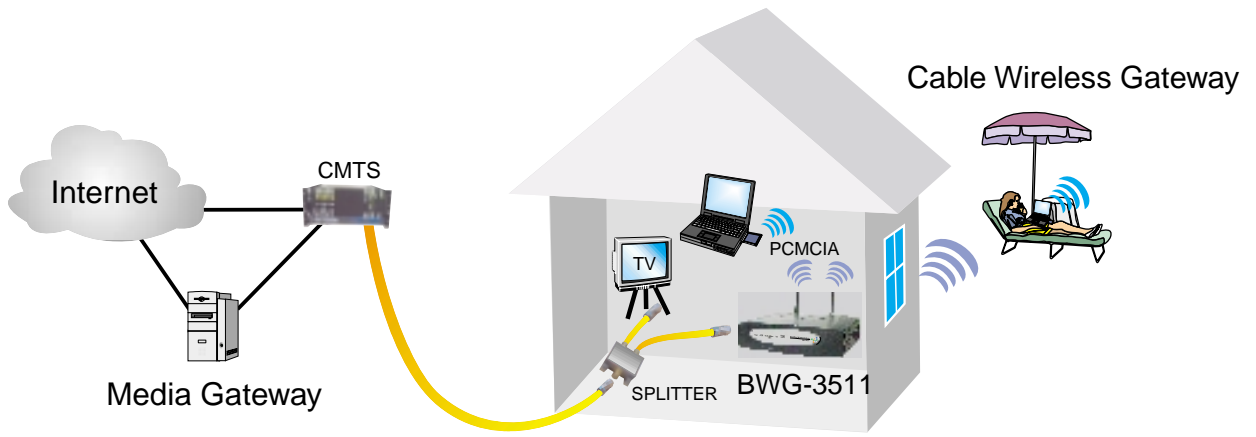
- DOCSIS-certified cable modem with built-in 802.11b wireless LAN access point
- RJ-45 10/100BaseT Ethernet port for access to network resources like printers and data storage
- Industry-standard silicon: Broadcom's BCM3350 handles the cable modem function and Intersil the 802.11b wireless networking
- DHCP and NAT gate way function available by request
- OS-independent, works with all major software platforms
- Extensive SNMP management support: MIB-II, Ethernet-like MIB, Bridge MIB, RF Interface MIB, Cable Device MIB, Baseline privacy Interface MIB
- Browser-based configuration and management
- IP address filtering
- Easy-to-read LED's clearly display network status and activity

### Overview

Hitron unites the power of broadband cable access with the ease and convenience of wireless networking in one great product. The BWG-3511 is an MCNS DOCSIS-certified cable modem combined with an 802.11b wireless LAN Access Point plus a 10/100BaseT Ethernet port. Targeted at both office and residential markets, the BWG-3511 provides users with high-speed broadband Internet access without tying them down to a wired local area network while letting them share the network's resources.

The BWG-3511 allows network cable operators to offer their customers wide bandwidth applications with downstream speeds of up to 38Mbps into the cable modem. From the cable modem, LAN speeds are rated at 11Mbps for wireless and up to 100Mbps for 100BaseT Fast Ethernet.

Hitron's in-house R&D team designed the BWG-3511 as an intelligent device that enhances its basic data transmission features with an internal TCP/IP protocol stack. IP address filters prevent unwanted traffic on the network. SNMP agents permit remote configuration and monitoring from a management station equipped with an SNMP server. DES data encryption ensures complete privacy for the transmitted information. DHCP and TFTP clients allow the modem to automatically get its IP address and configuration data from network servers, without the intervention of either the user or installer.



## Hardware Features

- Compliant to MCNS DOCSIS 1.0 specifications; DOCSIS 1.1 hardware-ready
- Single chip Broadcom BCM 3350 including DOCSIS MAC, transceiver and micro-controller
- Temic 4937 DI5 RF transceiver
- F type RF connector for cable network interface
- IEEE 802.11b access point using Intersil chip set
- Fully IEEE 802.11b compatible, 2.4GHz spread spectrum, frequency hopping technologies
- RJ-45 10/100Mbps Ethernet port for customer premises equipment interface
- Power jack for DC 12V/1.25A adapter

## Software Features

- Compliant to MCNS DOCSIS 1.0 specifications
- 802.1d transparent bridge between RF and Ethernet, and wireless AP
- Support UDP, IP, ARP, ICMP, DHCP, TFTP, SNMP, HTTP
- IP filtering based on source and destination addresses in the packet
- Baseline privacy based on DES and RSA encryption
- DHCP, TFTP, and ToD clients, provide device auto configuration
- Support standard SNMP, MIB-II, Ethernet-like MIB, Bridge MIB, RF Interface MIB, Cable Device MIB, Baseline privacy Interface MIB
- Support TFTP software download
- Power on self diagnostic
- Browser based configuration and management
- Provides user authentication to enforce tight security.
- Highly efficient antenna provides a range of operation up to 100 meters in free space.
- DHCP server support for internal network IP address
- Complete NAT software implemented with port and address mapping

## Mechanical Features

- Six Status LED's: Power, RF/DS, RF/US, Status, Data, Wireless Activity
- Factory-default reset button
- Product metrics:
 

Dimensions .....	Width 230mm
Height .....	55mm
Length .....	152mm
Weight .....	850g
Input Voltage .....	12V/1.25A
Power Dissipation(Maximum) .....	7 Watts