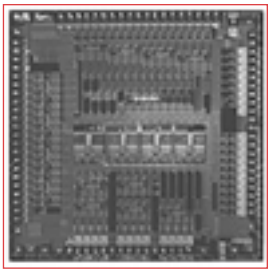
BCM93350C

PRODUCT Brief



BCM93350C DOCSIS/EuroDOCSIS CABLE MODEM W/CMOS TUNER

BCM93350C FEATURES

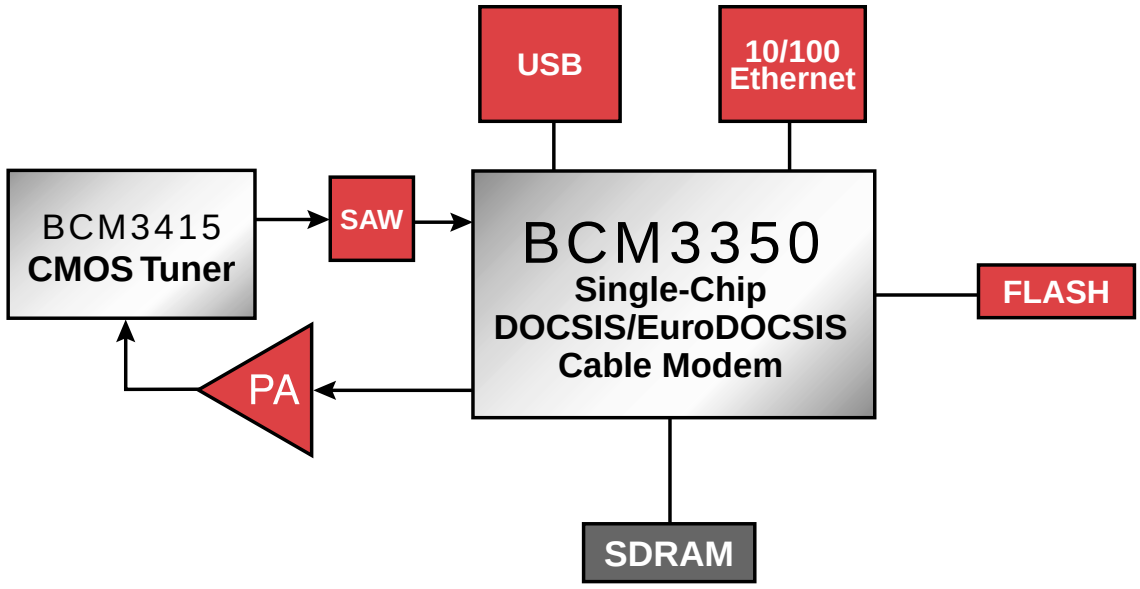
- **BCM93350C represents a revolutionary DOCSIS/ EuroDOCSIS cable modem design integrating a CMOS Tuner (BCM3415) instead of the traditional Can Tuner. This new reference design provides the first cable modem that can be manufactured in a fully automated fashion.**
- **The BCM93350C is a fully functional, low-cost, DOCSIS/EuroDOCSIS-based, cable modem design based on the BCM3350KPB, which is the world's most highly integrated solution for a DOCSIS/EuroDOCSIS cable modem.**
- **Low-cost CMOS based RF front-end with direct IF sampling can be easily modified to accommodate either DOCSIS or EuroDOCSIS RF environments.**
- **Supports both 10/100 Ethernet and USB 1.1 external connections.**
- **Embedded IPSEC functionality supporting Virtual Private networking (VPN) applications.**
- **Operating system (OS) independent DOCSIS/EuroDOCSIS 1.0/1.1 based cable modem software source code includes PC driver support.**

SUMMARY OF BENEFITS

- **Dramatically reduces time to market by providing a complete design for DOCSIS/EuroDOCSIS-based cable modem products.**
- **With the use of the BCM3415 (CMOS tuner), the tuner no longer needs to be replaced to convert a modem between DOCSIS and EuroDOCSIS.**
- **The CM software enables the rapid porting of DOCSIS/EuroDOCSIS-certified cable modem applications to BCM3350-based platforms.**
- **Provides flexibility to support designs for either Ethernet or USB interfaces, including necessary PC driver software source code.**
- **Superior performance in noisy plant environments as a result of Broadcom's newest generation of Broadcom QAMLink® technology.**
- **Reference designs come complete with:**
  - Schematics and Gerber files
  - Complete bill of materials (BOM)
  - Comprehensive data sheets
  - Software source code
  - Applications support

BCM93350C DOCSIS/EuroDOCSIS Cable Modem with CMOS Tuner

BCM93350C OVERVIEW



The **BCM93350C** QAMLink DOCSIS/EuroDOCSIS Cable Modem Reference Design represents a complete low-cost, DOCSIS/EuroDOCSIS- based silicon solution for subscriber cable modem product development. The reference design supports multiple interfaces:

- Universal Serial Bus (USB)
- 10/100BASE-T Ethernet

The Broadcom **BCM93350C** is based on the BCM3350/BCM3415 chipset, cable modem/CMOS tuner, providing the industry's most highly integrated solution for a DOCSIS/EuroDOCSIS cable modem. The BCM3350 represents the highest level of silicon integration ever achieved for a cable modem silicon solution incorporating the media access controller (MAC) and Physical (PHY) layer transmission, a MIPS-II R3000 RISC CPU, 10/100 Ethernet PHY/MAC with MII, USB, full IPSec, and a TDM interface to support VoIP functionality. This device provides all the necessary functionality required to receive and transmit high-rate digital data, voice and video to and from the home over a coax cable.

The BCM3415 is the world's first CMOS cable tuner that provides a solid-state design capable of supporting DOCSIS and EuroDOCSIS plant environments.

The **BCM93350C** is complemented at the headend by the BCM93210B, a DOCSIS/EuroDOCSIS-based cable modem termination system (CMTS) silicon solution, comprised of:

- BCM3033 Universal QAM modulator
- BCM3137 QPSK/16 QAM burst demodulator
- BCM3210B DOCSIS/EuroDOCSIS 1.0/1.1 CMTS MAC

The combination of the **BCM93350C** and the BCM93210B offered by Broadcom represents the world's only complete end-to-end reference design solution for both the CMTS and the cable modem. The completeness of the Broadcom solution provides developers with a seamless interface among all silicon components, greatly reducing the development time required to bring DOCSIS/EuroDOCSIS-based products to market at the lowest possible price point.

Ordering Information:

BCM93350C	DOCSIS
BCM93350C-E	EuroDOCSIS

For more information please contact us at:
Phone: 949-450-8700, FAX: 949-450-8710
Email: info@broadcom.com

Visit our web site at: www.broadcom.com

93350C-PB02-R-10.2.00

BROADCOM CORPORATION
16215 Alton Parkway, P.O. Box 57013
Irvine, California 92619-7013