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Connecting

e v e r y t h i n g ®

BCM95347R24WS, BCM95347R24M

PRODUCT Brief

SINGLE-CHIP L2+ MANAGED SWITCH WITH 24 10/100 PORTS + FOUR GBE PORTS

FEATURES

- The BCM95347R24WS and BCM95347R24M is a complete 24 FE port + 4 GE port reference design and evaluation system. The reference design is based on the BCM5347 device, a powerful, highly-integrated product of the ROBOswitch™ product family.

- The reference design provides system developers with a solid platform for product evaluation and software development.

- The BCM95347R24WS and BCM95347R24M reference platform also includes a 32-bit MIPS CPU subsystem capable of running advanced management software.

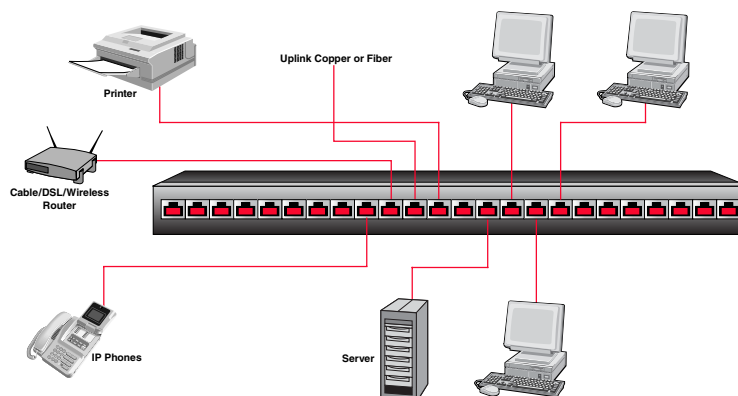- Complete design documentation, including board schematic and layout, and Broadcom API source code is available.

  The reference design includes the following :
  - Main PCB with BCM5347 switch
  - CPU subsyem with BCM5836 CPU
  - Latest version of the Broadcom API driver
  - Support for Linux or ECOS
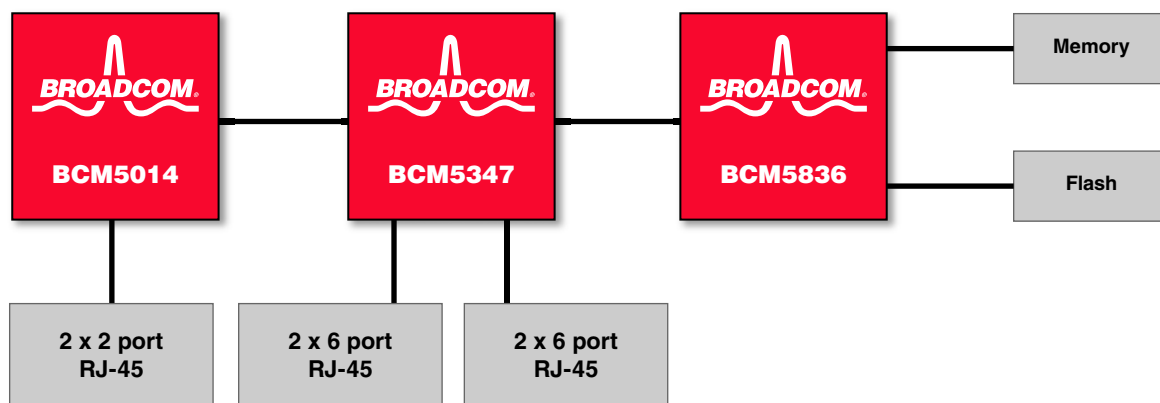 - Flexible Web-based management software

SUMMARY OF BENEFITS

- The BCM95347R24WS and BCM95347R24M includes:
  - Twenty-four 10/100 transceivers for TX/FX
  - Forty-eight media access controllers
  - 5-Gb media access controllers
  - 4-Mb total of packet buffer and control memory
  - Nonblocking switch fabric supports up to 24 FE + 4 GbE ports

- Flexible TCAM-based ContentAware™ Classification technology for affordable security and Access Control List

- Double Tagging enables ISP applications.

- Enables a new generation of lower-cost FE switches with the highest integration of enhanced L2+ features and maximum connectivity.

- Optimized for WebSuperSmart™ managed switch design.

- 802.1Q VLAN allows segmentation of network into smaller broadcast domains to preserve bandwidth and increase network security.

- Four flexible Class of Service (CoS) queues per port ensure the lowest latency to high-priority traffic. This enables the switch to support a wide variety of delay-sensitive video and audio multicast applications.

- IEEE 802.3ad link aggregation increases effective bandwidth and provides redundancy of a link.

- IEEE 802.1X Extensive Authentication Protocol over LAN (EAPOL) plus MAC address locking enhances network port security.

- Storm and Bandwidth/Rate Control provide better traffic profile management.

- Access to all internal registers through EB Bus, SPI, or MDC/MDIO interfaces.

- Hardware support for implementing SNMP and RMON.

- Low-power consumption and embedded regulators allow simple PCB design.

24-Port FE Switch for Small/Medium Businesses

Printer

Uplink Copper or Fiber

Cable/DSL/Wireless Router

IP Phones

Server

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Functional Block Diagram

Documentation and Software

Documentation for the BCM95347R24WS and BCM95347R24M platforms, SDK, software API, and reference design is available online through docSAFE:

- Complete BCM reference design files, including BCM95347R24WS and BCM95347R24M schematics, Gerber layout, and BOM.
- Reference Design Quick Start Guide
- SDK software API source code and documentation

Ordering Information

The ordering part numbers are:

- BCM95347R24WS for 24+4 WebSuperSmart Platform
- BCM95347R24M for 24+4 Managed Platform

For additional ordering information on the BCM95347R24WS and BCM95347R24M reference design and evaluation system, contact your local sales representative.

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BROADCOM CORPORATION
16215 Alton Parkway, P.O. Box 57013
Irvine, California 92619-7013
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95347R24XX-PB00-R   05/17/06

Phone: 949-450-8700
Fax: 949-450-8710
E-mail: info@broadcom.com
Web: www.broadcom.com