





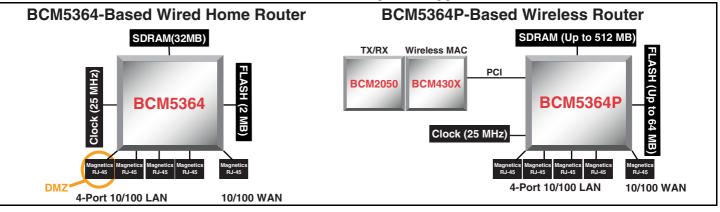
SENTRY 5 PRODUCT LINE: BCM5364/BCM5364P SECURED SWITCH PROCESSORS

- The most highly integrated access security processors
- 5-port 10/100 Ethernet switch with integrated PHY (TX/FX)
 IEEE 802.1Q (VLAN) support; IEEE 802.1P (4 Priority Queues CoS, QoS), DiffServ, ToS support; IEEE 802.1D (Spanning Tree) support
 - 802.1X protocols, IP multicast, IGMP snooping for video streaming applications, broadcast suppression, and hosting of multiple subnets
 - 128-KB on-chip packet buffer
- General purpose 200-MHz MIPS32[™] Processor•
 8 KB of instruction cache, 4 KB of data cache
- Supports Linux[®], VxWorks[®] operating systems
- BCM5364P supports PCI 2.2, 32-bit/33-MHz host/slave interface
 - Supports four additional PCI devices in host mode

• Extensive interface flexibility

- Interface to flash memory (up to 32 MB)
- Interface to SDRAM/DDRAM (up to 512 MB, 100 MHz)
- GPIO, USB, UART interface
- JTAG/EJTAG support
- 400-pin PBGA package
- Low power, 1.8V core, 3.3V I/O operation
- Linux Open Source application software support
 - Third-party software support

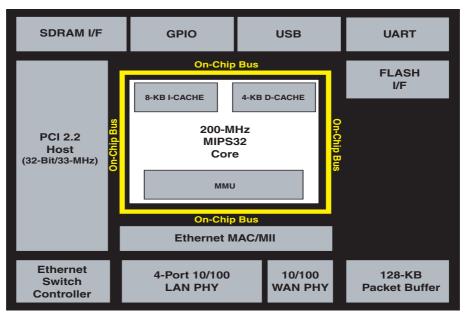
- System-on-a-chip solution offers optimal price/performance ratio and form factor, low power dissipation, and fastest time to market
- Integration of managed five-port Fast Ethernet switch
- Integration of MIPS32 CPU with silicon-proven IPSec processor facilitates complete packet processing in one pass for multiple policy-based packet routing and/or packet transformations (firewall, NAT, VPN, QoS)
- Enables advanced application development with industrystandard operating systems/platforms/tools
- Widely proliferated high-performance MIPS32 CPU enables advanced application development with industry-standard operating systems/platforms/tools
- Extensive application software offered
 - NAT, filtering (IP, TCP), dynamic firewall, DMZ
 - Ethernet routing, static routing, DHCP server/client
- Compatible with other Broadcom devices, enabling optimal system-level form factor, costs, and power dissipation



BCM5364/5364P-Based System Applications

BROADCOM.

OVERVIEW



Note: PCI Interface Supported in 5365P Only

Broadcom's **BCM5364** and **BCM5364P**, two System-On-Chips, are the most highly integrated access switch processor there are. The **BCM5364/BCM5364P** also features an on-chip, five-port 10/100 Ethernet switch with management features. This switch processor also offers extensive processor and interface integration featuring an integrated 200-MHz MIPS32TM core, UART, flash and SDRAM/DDRAM interfaces. The **BCM5364P** also supports a PCI interface. Both the devices support IPSec encryption and authentication in a single pass.

The integrated 200-MHz MIPS32TM core of the **BCM5364/BCM5364P** has a 2-way set-associative 8-KB instruction cache and a 4-KB data cache The CPU includes the MMU, which enables support for various RTOS.

The **BCM5364/BCM5364P** also supports interfaces that enable systemlevel cost savings, a better form factor, and lower power dissipation. The **BCM5364/BCM5364P** supports up to 512 MB of SDRAM/DDRAM and 64 MB of flash memory. The **BCM5364P** also supports the PCI version 2.2, 32-bit/33-MHz host interface, allowing enumeration of four external PCI peripherals as a way to extend system functionality. The UART enables a glueless interface to serial devices such as modems.

Broadcom provides its proven API and drivers for integration with thirdparty application software. Broadcom also offers application software to build complete system applications. Application software support includes functions such as firewall (dynamic firewall, DMZ hosting, filtering-IP/TCP, NAT/PAT), VPN (IKE engines, IPSec drivers and API, PPTP-passthrough, PPPoE client-PAP and CHAP authentication), QoS/CoS/ToS (static and dynamic Ethernet routing, VLAN tagging), and many other features.

A single **BCM5364/BCM5364P** based platform is easy to reuse for other types of access to market segment equipment ranging in throughput performance from T1/E1 to 100 Mbps. This equipment includes wireless and wired home/residential and SOHO firewall and VPN appliances, wireless access points, and many types of customer premises equipment (CPE) devices.

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