



WIRED CONNECTIVITY

BCM53134

Six-Port Ultra-Low Power Ethernet Switch



- Four GPHY integrated + 1xRGMII + 1xRGMII/SGMII multilayer Ethernet switch for Home Gateway, Wi-Fi router, and broadband access applications
- 1G/2.5 Gbps SGMII to address growth in bandwidth demand and 802.11ac rollout
- 256-pin, 11 mm x 11 mm FBGA package for improved layout and yield
- Lowest power consumption to meet EU CoC and Energy Efficiency requirements for home and SOHO/SMB gateways
- Six selectable queues per port, plus two time-sensitive queues for efficient delivery of multiple differentiated services

OVERVIEW

The BCM53134 is Broadcom's lowest power consumption integrated multilayer Ethernet switch for next-generation Home Gateway, SOHO/SMB, and wireless router applications.

Building on industry-leading 28 nm RoboSwitch™ architecture, the BCM53134 allows customers to significantly reduce power consumption of existing designs, while delivering higher performance to meet the growing bandwidth demands in the home and SOHO/SMB environments.

The BCM53134 can connect with other devices for scalable, high-performance systems through multiple interfaces including RGMII and SGMII, at line rates of up to 2.5 Gbps.

Requirements such as video and Internet Protocol (IP) phone services are driving the need for QoS and adherence to industry standards. The BCM53134 supports six selectable classes of service per port, plus two additional time-sensitive classes. It supports SP, WRR, any combination of SP and WRR scheduling, port, MAC, IEEE 802.1P, and IPv4/IPv6 DSCP-based QoS. The BCM53134 delivers the most comprehensive feature set required by top tier service providers for home and SOHO/SMB gateways.

Protocols such as IEEE 802.1Q-based VLAN with 4K entries, port-based VLAN, VLAN double tagging (Q-in-Q), and VLAN translation are fully supported.

FEATURES

- 4xGPHY integrated, 1xRGMII and 1xRGMII/SGMII cost-effective smart-managed Gigabit switch
- 1G/2.5 Gbps SGMII interface
- Integrated on-chip 8051 microcontroller for cable diagnostics and green-power saving modes
- IEEE 802.1p, MAC Port, TOS, and DiffServ QoS for six queues, plus two time sensitive queues
- 128 Compact field processor (CFP) entries rules
- Broadsync™ HD for IEEE 802.1AS support

BENEFITS

- Lowest power consumption Gigabit switch for next-gen Broadband home gateway, SOHO/SMB, and wireless router applications
- 11 mm x11 mm 0.65 mm ball pitch FBGA package for improved layout and yield
- 2.5G SGMII interface to address 802.11ac high bandwidth and other 2.5G applications
- Individual ports can automatically detect when short cable lengths are used to scale power appropriately

BCM53134	
✓	Multilayer Switch
✓	Lowest Power
✓	EEE
✓	1G/2.5 Gbps SGMII interface



Block Diagram

BCM53134: PRODUCT FAMILY	BCM53134M	BCM53134S	BCM53134P	BCM53134O
Number of Cu ports supported (four GPHYs)	4	4	4	4
RGMI interface	2	2	1	1
SGMI interface	0	0	1	1
Package	11x11 (256-pin)	11x11 (256-pin)	11x11 (256-pin)	11x11 (256-pin)
CFP support	Yes	Not supported	Yes	Not supported
802.11AS	Yes	Yes	Yes	Yes
Link aggregation	Yes	Yes	Yes	Yes
RoHS support	Yes	Yes	Yes	Yes
Cable diagnostics tool support	Yes	Yes	Yes	Yes
LoopDetect tool support	Yes	Yes	Yes	Yes



For more information, visit:
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ABOUT BROADCOM

Broadcom Corporation (NASDAQ: BRCM), a FORTUNE 500® company, is a global leader and innovator in semiconductor solutions for wired and wireless communications. Broadcom® products seamlessly deliver voice, video, data, and multimedia connectivity in the home, office, and mobile environments. With the industry's broadest portfolio of state-of-the-art system-on-a-chip and embedded software solutions, Broadcom is changing the world by Connecting everything®. For more information, go to www.broadcom.com.



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