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RTL8309M-CG

SINGLE-CHIP 9-PORT 10/100M ETHERNET SWITCH CONTROLLER

General Description

The RTL8309M-CG is a 9-port 10/100M Ethernet switch controller that integrates memory, nine MACs, and eight physical layer transceivers for 10Base-T and 100Base-TX operation into a single chip. It supports a (T)MII/RMII interface for external devices to connect to the 9th MAC. The external device could be a routing engine, HomePNA, HomePlug, or VDSL transceiver depending on the application.

Features

- 9-port switch controller with memory and transceiver for 10Base-T and 100Base-TX
- Non-blocking wire-speed
- Compatible with IEEE 802.3/802.3u
- Built-in high efficiency SRAM for packet buffer, with 2K-entry lookup table
- 2048 byte maximum packet length
- Flow control fully supported
- Half duplex: Back pressure flow control
- Full duplex: IEEE 802.3x flow control
- Supports (T)MII/RMII interface connection to external MAC or PHY

Applications

- xDSL/cable modem router or home gateway applications
- HomePNA/HomePlug bridge solutions
- Set-top box/TV

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