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📍 [Home](#) / [Products](#) / [Communications Network ICs](#) / [Network Interface Controllers](#) / [10/100M Fast Ethernet](#) / [PCI Express](#)

## 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

### About Realtek

[Overview](#)

[Snapshot](#)

[Realtek in Brief](#)

[Organization](#)

[Technological Strengths](#)

[Quality Policy](#)

[Environmental Policy](#)

[Occupational Health & Safety Policy](#)

[Milestones and Awards](#)

### Investor Relations

[Overview](#)

[Financial Information](#)

[Analysts Meeting](#)

[Shareholder Services](#)

[Corporate Governance](#)

[Financial Calendar](#)

[FAQ](#)

[Contact](#)

### Contact Us

[Overview](#)

[Technical Support](#)

[Sales Contacts](#)

[International Distributors](#)

[Public Relations](#)

[Investor Relations](#)

[General Inquiries](#)

### Careers

Office Location

Products

Overview

Communications Network ICs

Computer Peripheral ICs

Multimedia ICs

What’s Hot

News

Overview

News Releases

Events

Media Contacts

Corporate Social

Responsibility

Overview

Stakeholder Engagement

Conflict Mineral Policy

Downloads

Overview

Communications Network ICs

Computer Peripheral ICs

Multimedia ICs

Overview

Resume

Opportunities

Employee Training

Benefits