

YT8614C / YT8614H

4 口千兆以太网 PHY

1. 简介

YT8614C / YT8614H 是一款低功耗 4 端口 10/100/1000 Mbps 以太网 PHY。它提供了基于 CAT5 双绞线的完整的物理层功能。YT8614 支持 QSGMII 接口,最大四个 10/100/1000Mbps UTP 电口或四个 SGMII Fiber 口。

YT8614 使用混合信号处理来执行均衡、数据恢复和恢复错误纠正, 以实现 CAT5 双绞线上的稳健运行。

YT8614 提供集成的内置自检和环回功能, 便于调试使用。

YT8614 为降低功耗提供了创新而稳健的方法, 如 EEE、WoL 和其他可配置的节能模式。

商业级型号:YT8614C

工业级型号:YT8614H

应用

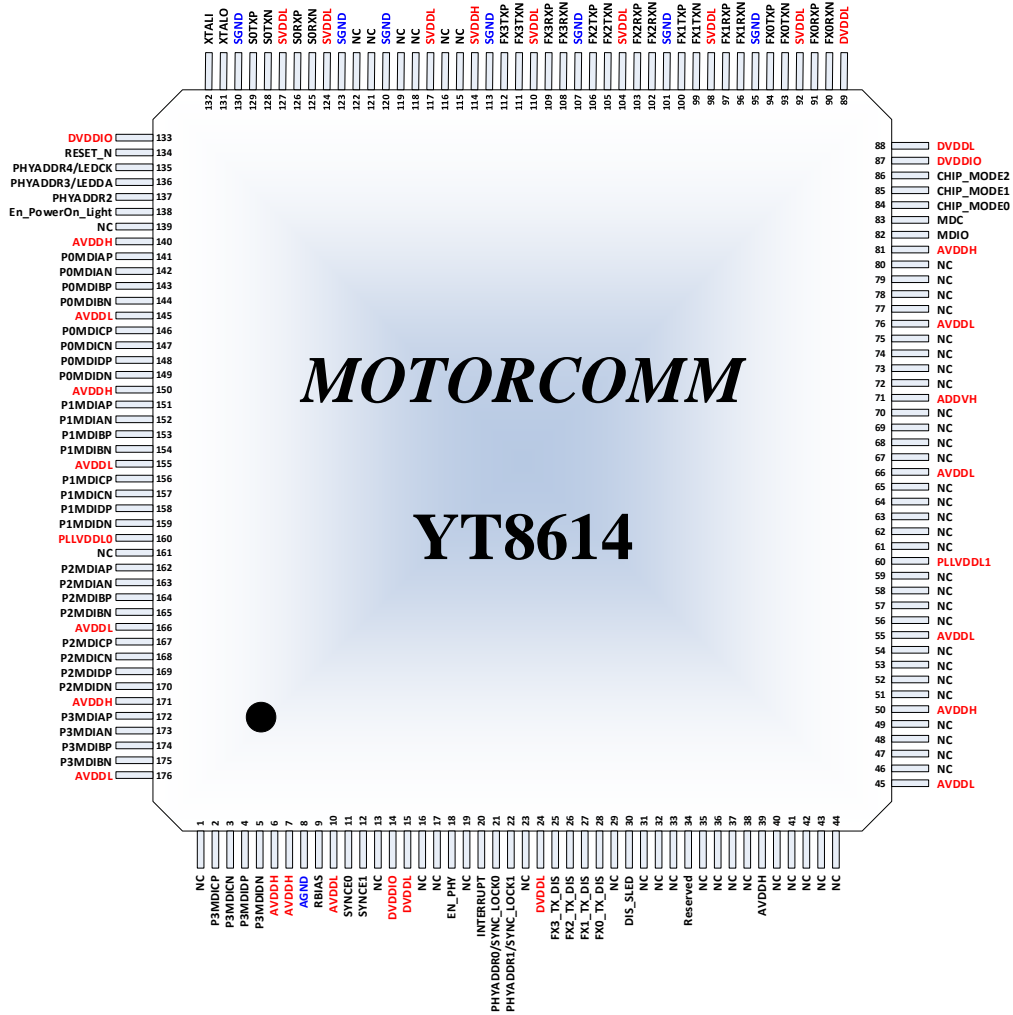
- 交换机
- 以太网控制器
- 网络安全
- 企业路由

2. 主要功能

- Integrated Quad 10/100/1000M Ethernet Transceiver with four SerDes interface
- Support QSGMII (Quad Serial Gigabit Media Independent Interface) in 10/100/1000M mode
- Physical interface supports 1000BASE-X
- Physical interface supports 100Base-FX
- Support SGMII mode direct link to one designated Copper Giga PHY with speed adaption
- Supports IEEE 802.3az-2010 (Energy Efficient Ethernet)
 - EEE Buffering
 - Incorporates EEE buffering for seamless support of legacy MACs
- Supports crossover detection and auto correction in 10BASE-Te/100BASE-TX
- Auto-detection and auto-correction of wiring pair swaps, pair skew, and pair polarity
- Supports Cable diagnostic
- Supports Link Down Power Saving (Sleep Mode)
- Supports one interrupt output to external CPU for notification
- Supports fast link failure indication
- Supports 120m for CAT.5E cable in 1000BASE-T
- Supports Serial LED interface.
- Supports SyncE clock output Mux
 - Recover clock from either SerDes
 - Recover clock from either Copper PHY
 - From internal 25Mhz Clock
- SerDes Test pattern
 - PRBS-7/10
 - IDLE /K28.5 /D5.6
 - Customized define by user
 - SerDes BIST
- PHY BIST
 - Packet Generator and Checker
- Good EMI/EMS, and good thermal performance
- Power consumption, <400mW per Port
- Supports 25MHz crystal or 3.3V OSC input

- 3.3V and 1.2V power supply
- Package : LQPF 176 20x20mm

3. 管脚



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