

YT8618C / YT8618H

8 口千兆以太网 PHY

1、简介

YT8618C / YT8618H 是一款低功耗 8 端口 10/100/100 Mbps 以太网 PHY。它提供了基于 CAT5 双绞线的完整的物理层功能。YT8618 支持两组 QSGMII 接口,8 个 10/100/1000Mbps UTP 电口。

YT8618 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。

YT8618 提供集成的内置自检和环回功能, 便于调试使用。

YT8618 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。

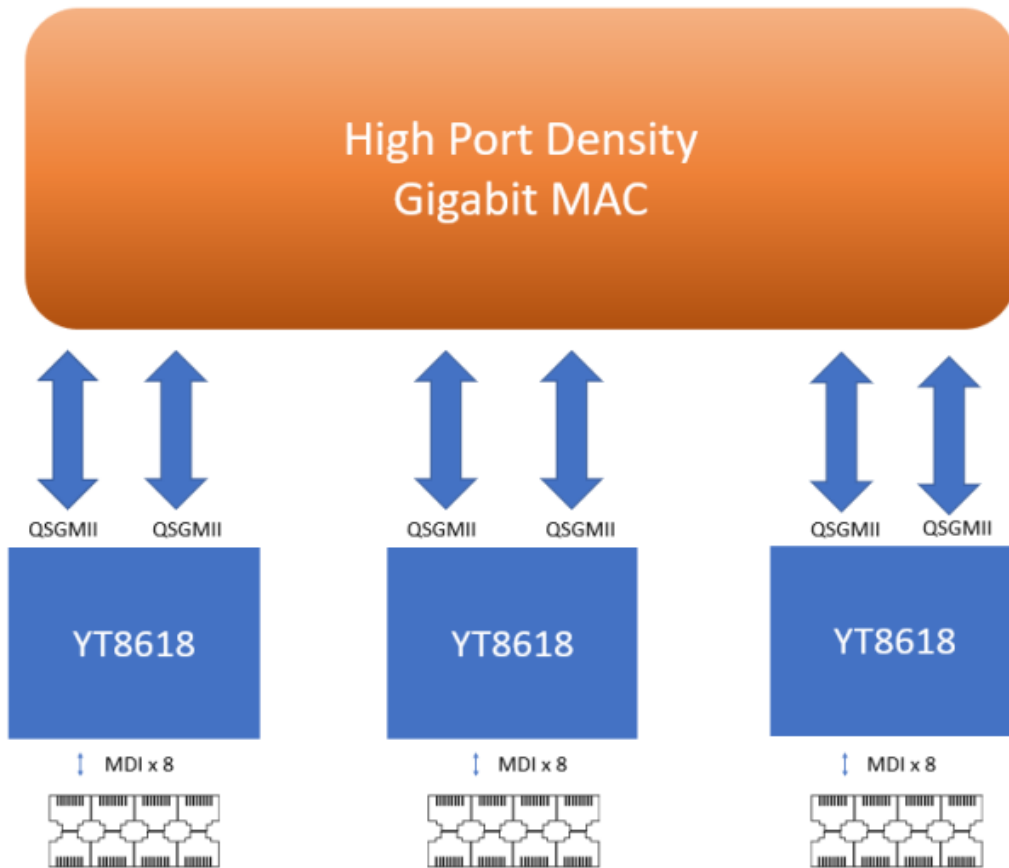
商业级型号:YT8618C

工业级型号:YT8618H

应用

- 交换机
- 以太网控制器
- 网络安全
- 企业路由

典型应用框图



2、主要功能

- Octal-port integrated 10/100/1000M Ethernet transceiver
- Each port supports full duplex in 10/100/1000M
- Support LRE100-4, disabled by default
 - Cable reach up to 400 meter @100Mbps
- Support QSGMII (Quad Serial Gigabit Media Independent Interface) in 10/100/1000M mode
- 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 Synchronous Ethernet (Sync-E)
- Supports crossover detection and auto-correction
- Auto-detection and auto-correction of wiring pair swaps, pair skew, and pair polarity
- Supports Cable diagnostic
- Supports one interrupt output to external CPU for notification
- Fast link failure indication support
- Support Serial LED interface
- SerDes Test pattern
 - PRBS-7/10/31
 - IDLE/K28.5/D5.6
 - Customized define by user
 - SerDes BIST
- Packet Generator and Checker
- Low power consumption
- Easy layout, good EMI, and good thermal performanc
- 25MHz crystal or 3.3V OSC input
- 3.3V and 1.2V power supply
- LQPF 128 package

3、管脚

