

YT8511C/YT8511H

单口千兆以太网物理层收发器

产品简介

YT8511C/YT8511H 是一款高度集成的以太网收发器，符合 10BASE-Te, 100BASE-TX 和 1000BASE-T IEEE 802.3 标准。提供通过 CAT5E UTP 电缆，传输和接收以太网数据包必要的物理层功能。

基于先进的 DSP 技术，结合自适应均衡器、回波抵消器、模数转换、锁相环、线路驱动器、编/解码器等所有支持千兆数据速率的电路，实现强健的性能，胜任车载等恶劣环境的电磁干扰（EMI）和低功耗的要求。

YT8511C/YT8511H 的设计符合 RGMII 接口规范，兼容标准以太网媒体访问控制器（MAC）和交换机控制器。

YT8511 支持多个运行温度范围。

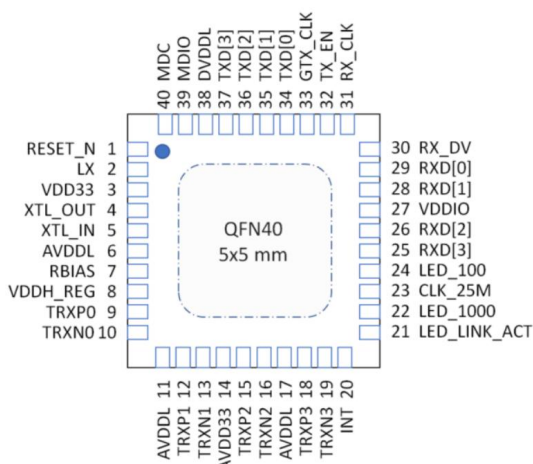
商业级型号:YT8511C

工业级型号:YT8511H

应用领域

- 数字电视
- 游戏机
- IP 摄像头
- 打印机
- 拼接屏

管脚



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主要功能

- 10BASE-T_e/100BASE-T_x/1000BASE-T_{IEEE} 802.3 compliant
- Support LRE100-4
Long Reach Ethernet up to 400 meter @100Mbps by 4-pairs in the CAT.5E UTP cable
- Supports 1000 BASE-T PCS and auto negotiation with next page support
- Supports RGMII interface to MAC devices with a broad I/O voltage level options 2.5V and is compatible with 3.3V I/O.
- RGMII timing modes support internal delay and external delay on Rx path
- Error-free operation up to 120 meters of CAT5e cable.
- Supports Wake-on-LAN (WoL) to detect magic packet and notify the sleeping system to wake up
- Jumbo Frame support up to 10KB (full duplex)
- All digital baseline wander correction
- Automatic MDI/MDIX crossover
- Automatic polarity correction
- IEEE 802.3u compliant Auto-Negotiation
- Software programmable LED modes
- Multiple Loopback modes for diagnostics

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