



HT8618C / HT8618H

8-port Gigabit Ethernet PHY

1、intro

The HT8618C/HT8618H is a low-power 8-port 10/100/100Mbps Ethernet PHY. It provides complete physical layer functionality based on CAT5 twisted pair. HT8618 supports two sets of QSGMII interfaces, eight 10/100/100Mbps UTP electrical ports.

The HT8618 uses mixed signal processing to perform equalization, data recovery, and recovery error correction for robust operation on CAT5 twisted pairs.

The HT8618 provides integrated built-in self-check and loopback functions for easy debugging.

The HT8618 provides innovative and robust ways to reduce power consumption, such as EEE, WoL, and other configurable energy saving modes.

Commercial grade model :HT8618C

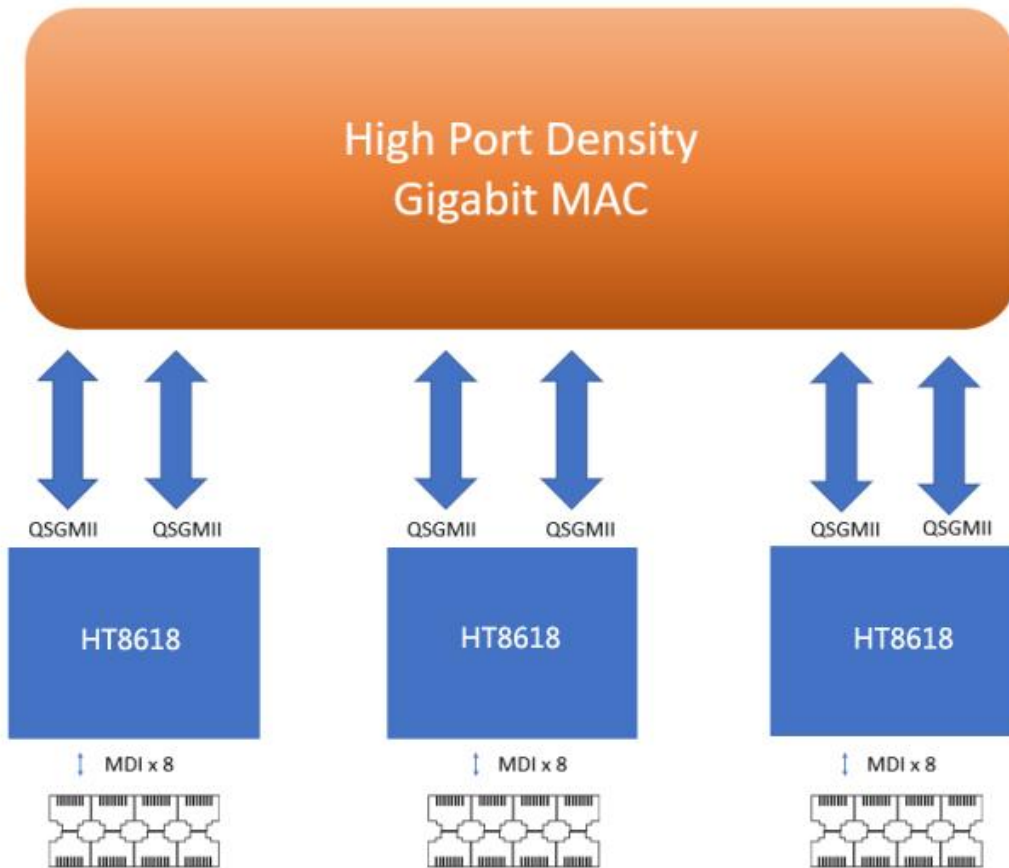
Industrial model :HT8618H

Apply

- Exchange
- Ethernet controller
- Network security
- Enterprise routing



Typical application block diagram





2、Main function

- 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、pin

