



HT8512C/HT8512H

Single-port 100 gigabit Ethernet physical layer transceiver

1.intro

The HT8512C/HT8512H is a low-power single-port 10/100 Mbps Ethernet PHY. It provides the basis complete physical layer functionality of CAT5 twisted pair. In addition, the HT8512C/HT8512H also provides standard MII and RMII interfaces for flexible MAC connection.

The HT8512C/HT8512H uses mixed signal processing to perform equalization, data recovery , and recovery error correction for robust operation on CAT5 twisted pairs.

The HT8512C/HT8512H provides integrated built-in self-check and loopback functions for easy debugging.

The HT8512C/HT8512H provides innovative and robust ways to reduce power consumption , such as EEE, WoL, and other configurable energy saving modes.

Commercial grade model :HT8512C

Industrial model :HT8512H

Apply

- General embedded application
- Industrial control
- Video surveillance
- Factory automation



2. Main function

- IEEE 802.3az, EEE
- 100Base-TX
- 10Base-Te
- MII mode
- RMI mode
- Full/Half duplex
- Auto-negotiation
- Power down mode
- Base Line Wander (BLW) compensation
- Auto MDIX
- Interrupt function
- WOL, Wake on Lan
- Automatic Polarity correction
- 2 sets LED indicator
- 25 MHz crystal or OSC
- Provide 50Mhz clock source for MAC
- Single Power supply, internal LDO
- Package QFN 32, 5x 5mm



3.pin

