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RTL8201FI-VC-CG

SINGLE-CHIP/PORT 10/100M ETHERNET PHYCEIVER WITH AUTO MDIX

General Description

The RTL8201FI-VC-CG is a single-chip/single-port 10/100Mbps Ethernet PHYceiver that supports:

- MII (Media Independent Interface)
- RMII (Reduced Media Independent Interface)

The RTL8201FI-VC-CG implements all 10/100M Ethernet Physical-layer functions including the Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA), Twisted Pair Physical Medium Dependent Sublayer (TP-PMD), 10Base-TX Encoder/Decoder, and Twisted-Pair Media Access Unit (TPMAU). The RTL8201FI-VC-CG also supports auto MDIX.

A PECL (Pseudo Emitter Coupled Logic) interface is supported to connect with an external 100Base-FX fiber optical transceiver. The chip utilizes an advanced CMOS process to meet low voltage and low power requirements. With on-chip DSP (Digital Signal Processing) technology, the chip provides excellent performance under all operating conditions.

Features

- Supports IEEE 802.3az-2010 (EEE)
- 100Base-TX IEEE 802.3u compatible
- 10Base-T IEEE 802.3 compatible
- Supports MII mode
- Supports RMII mode
- Full/half duplex operation
- Twisted pair or fiber mode output
- Supports Auto-Negotiation

- Supports power down mode
- Supports Link-Down Power Saving
- Supports Base Line Wander (BLW) compensation
- Supports auto MDIX
- Supports Interrupt function
- Supports Wake-On-LAN (WOL)
- Adaptive Equalization
- Automatic Polarity Correction
- Provides two network status LEDs
- Supports 25MHz external crystal or OSC
- Supports 50MHz external OSC Clock input
- Provides 50MHz clock source for MAC
- Low power supply 1.1V and 3.3V; 1.1V is generated by an internal regulator
- 11μm CMOS process
- 32-pin MII/RMII QFN Green package
- Industrial grade manufacturing process

Applications

- DTV (Digital TV)
- MAU (Media Access Unit)
- CNR (Communication and Network Riser)
- Game Console
- Printer and Office Machine
- DVD Player and Recorder
- Ethernet Hub
- Ethernet Switch

In addition, the RTL8201FI-VC-CG can be used in any embedded system with an Ethernet MAC that needs a UTP physical connection or Fiber PECL interface to an external 100Base-FX optical transceiver module.

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