

LXT906

Ethernet Twisted-Pair/Coax Adapter

General Description

The LXT906 Twisted-Pair/Coax Adapter is designed to allow a cost effective Ethernet implementation in a mixed media environment. Combined with a coax transceiver such as the DP8392, the LXT906 offers a complete adapter solution.

LXT906 functions include level-shifted data pass-through from one transmission media to another, collision detection and propagation, and automatic correction of polarity reversal on the twisted pair input. It also includes LED drivers for jabber, coax receive and collision, twisted pair receive and collision, reversed polarity detect and link indication functions.

The LXT906 is an advanced CMOS device and requires only a single 5 volt power supply.

Applications

- 10BASE-T to Coax (10BASE5 or 10BASE2) converter
- Direct interface to Coax transceiver and to RJ45 connector

Features

- Collision detection and propagation
- Internal pre-distortion generation
- Internal common mode voltage generation
- Selectable link test
- Twisted-Pair receive polarity reverse detection and correction
- LED drivers for TP and coax receive; TP and coax collision; jabber, link active and reversed polarity indicators
- Single 5 V supply, CMOS technology
- Available in 28-pin PLCC

LXT906 Block Diagram

