DATA SHEET

azENET

version 1.0

asiczen

IP's USED

- azEPHY
- azENET
- azMDIO

PROTOCOLS

- IEEE 802.3 (type 100BASE-T4, 1000BASE-X, 10GBASE-T)

INTERFACES

- MII
- GMII
- XGMII

DELIVERABLES

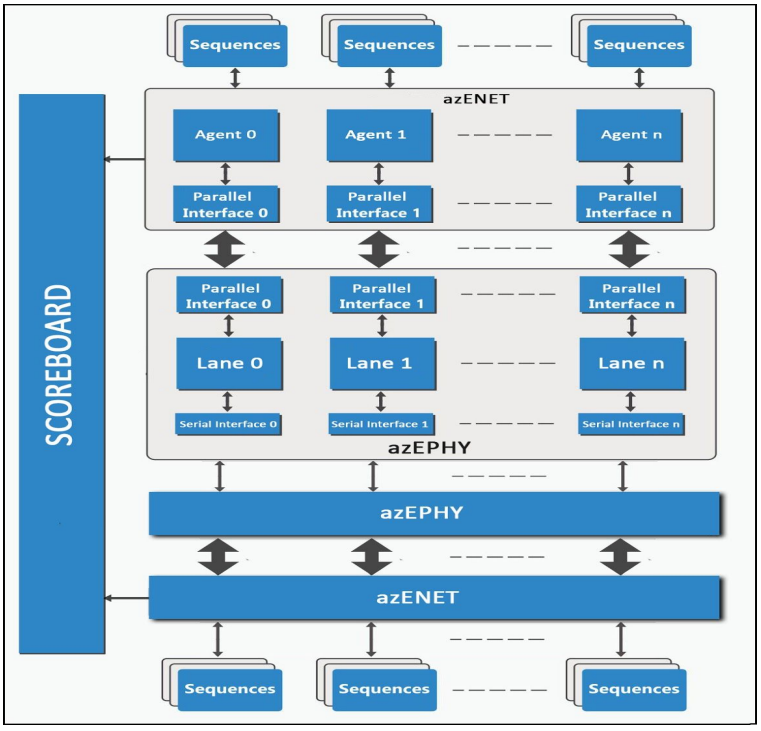
- PHY MODEL
- BACK-BACK TESTBENCH
- Exhaustive Test Suite
- User Guide

SUPPORT

info@asiczen.com

CONTACT

Suite #812, 8th Floor,
DLF cybercity, Patia,
Bhubaneswar-751021
Odisha,
India
+91 9937 144847
www.asiczen.com



Description

This Ethernet PHY VIP Solution is a combination of three products (azEPHY, azENET, azMDIO). azEPHy is a system verilog based PHY model. azENET and azMDIO are UVCS used to drive the PHY at the MII, GMII, XGMII interface.

Features

- Supports Ethernet version IEEE 802.3
- Supports both half duplex and full duplex operation.
- Contains 3 types of frame.
  - Basic frame (length/type <=1500)
  - Type frame (length/type >=1536)
  - Pause frame (Fixed size = 84 octets)
- Supports MII, GMII and XGMII interface.
- Handles collision detection and avoidance.
- Supports carrier extension.
- Supports error insertion scenarios.
- Contains transmission and reception error scenarios.
- Contains test suite to check all scenarios.