RINGO - UVDI TEST BOARD

Model Number: T8192
Part Number: PWA-004285-02R

Features

Fully supports Aurora UVDI module evaluation and testing

Configures Aurora module parameters

Generates multiple test patterns to the module

Able to monitor Aurora module status:
- power voltages and currents
- temperature
- FPGA registers

Description

Ringo is a custom designed single board computer utilizing Freescale ColdFire microprocessor MCF5307. The board features a high-speed LVDS and I2C interfaces to communicate with Aurora module and RS-232 serial interface (115.2K baud rate) to communicate with a PC HyperTerminal using ASCII characters.
Power required: 3.3V DC for Ringo board and 24V DC to be provided for Aurora module.
High-Speed, RS-232 and power cables are provided with Evaluation (Trial) Kit.

Test Patterns

Test0 – stresses downlink data path and demonstrates the Expose Data transfer is error-free
Test1 – sets all pixels at one amplitude level with associated delay value
Test2 – toggles all pixels between 2 amplitude levels with their associated delay values
Test3 – sequences all pixels between 4 amplitude levels with their associated delay values
Test4 – sequences all pixels between 7 amplitude levels with their associated delay values
Test5 – toggles blocks of pixels between 2 amplitude levels with their associated delay values
Test6 – modulates single pixel between 2 amplitude/delay levels and moves to the next pixel at the “interval” time. Switching rate between 2 amplitudes is defined by last Loopcount command
Test9 – “ramps” all pixels through a series of incrementing amplitude levels. Start amplitude, end amplitude and amplitude step size are user programmable
Test11 – sets a block of pixels to a defined amplitude/delay level while pixels outside of the block remain at another defined amplitude/delay level
Test12 – toggles block of pixels between 2 amplitude/delay levels while pixels outside of the block remain at one of those two amplitude/delay levels