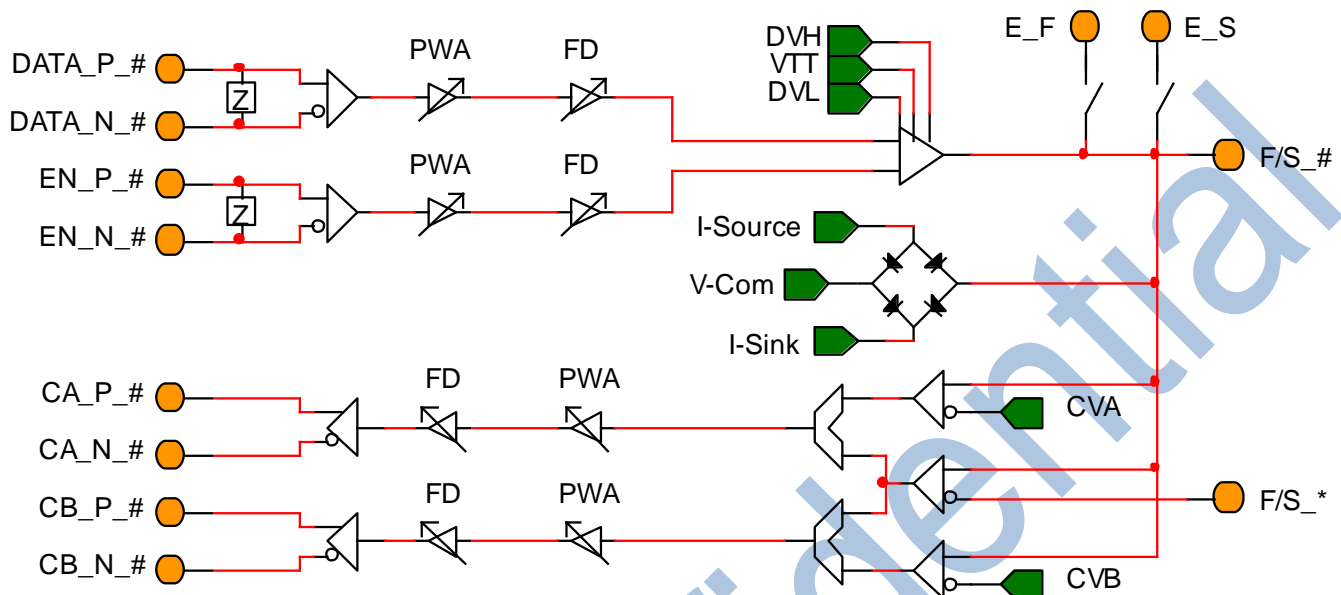


# ANALOG TEST ENGINES



## PE82 – Quad Channel, 6V, 2.5 Gb/s, Pin Electronics

### Driver

- 2.5 Gb/s Fmax
- 3 Level Driver w/ On-Chip Levels
- Driver Modes
  - Differential Driver
  - 1:2 / 1:4 Fanout
- -1.0V to +5.0V Output Range

### Comparator

- 2.5 Gb/s Fmax
- -1.0V to +5.5V Input Range
- Dual comparators w/ on-chip thresholds
- Differential Comparator

### Deskew

- Fine Delay
  - Adjustable span from 400 ps to 5.0 ns
  - Resolution from 0.4 ps to 5 ps
- Pulse Width Adjust ( $\pm 200$  ps / 1.5 ps Res)

### Active Load (20 mA)

- On-Chip V-Com and Source / Sink Levels
- Independent Source and Sink Currents

### Integrated 16-Bit DACs w/ Offset and Gain Adjust

### Measurement Capability

- Analog Monitor

### FPGA Real Time Interface

- Universal Inputs
  - Differential or Single-Ended
  - Integrated Terminations
- Universal Outputs
  - Differential or Single-Ended
  - Adjustable Common Mode
  - Adjustable Swing

### Built-In Self Protection

- Over Temperature Alarm
- DUT Ground Continuity Checker

### 2 Pin Serial Port

### Package / Power

- 8 mm X 8 mm FC-BGA, Lead Free
- Exposed Back-of-the-Die on top
- 81 Ball, 0.8 mm lead pitch
- 500 mW to 600 mW / Channel