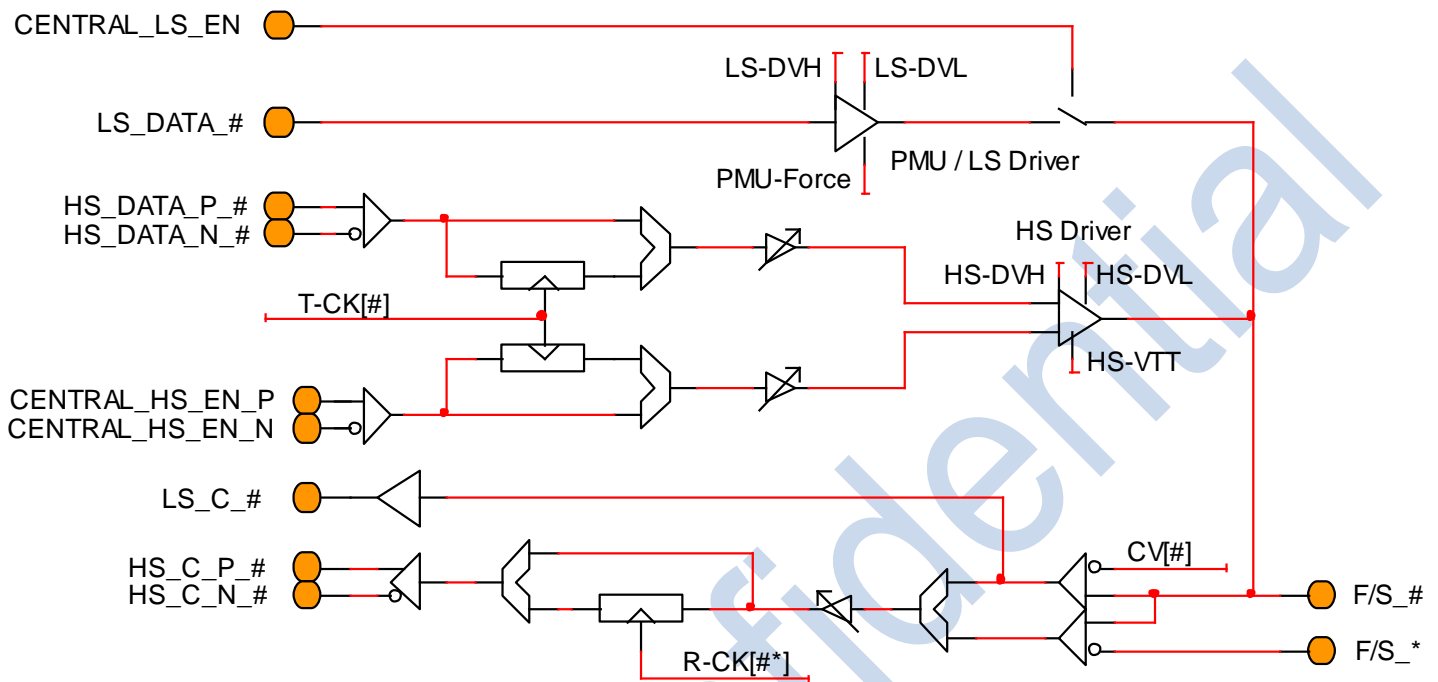


# ANALOG TEST ENGINES



## PE10 – D-Phy Pin Electronics, 10 Channel, 2.5 to 4.0 Gb/s

### Pin Electronics – High-Speed Driver

- 3-Level, 3.2 Gb/s Fmax
- 0V to +3.0V Output Range
- Programmable Pre-Compensation
- Synchronous / Asynchronous Operation
- Differential Driver Configuration
- D-Phy Lane Configuration

### Pin Electronics – High-Speed Comparator

- 4.0 Gb/s Fmax
- Single comparator w/ on-chip thresholds
- Differential comparator per Channel Pair
- -1V to +4V Input Range
- Synchronous / Asynchronous Operation

### Deskew

- Coarse Delay (1.575 ns range, 25 ps res)
- Fine Delay (64 ps range, 1 ps res)
- Pulse Width Adjust ( $\pm 128$  ps / 2 ps Res)

### Low Speed Driver

- 2-Level, 100 Mb/s Fmax
- -0.5V to +3.5V Output Range

Product Status – Production

### PMU

- FV / FI / MV / MI Capability
- -1V to +4V Measure-Voltage Range
- -0.75V to +3.75V Force-Voltage Range
- 5 Current Ranges (4  $\mu$ A to 40 mA)
- Programmable Voltage / Current Clamps

### Measurement System

- External Force / Sense Switches
- Analog Monitor (with an External ADC)

### Built-In Self Protection

- Over Temperature Alarm
- Current / Voltage Clamp and Alarm
- DUT Ground Continuity Checker

### 2 Pin Serial Port

### Package / Power

- 13 mm X 13 mm QFN, Lead Free
- Exposed heat slug on bottom
- 120 Lead, 0.4 mm lead pitch
- 3W / Chip to 8W / Chip

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