PE131 – Quad Channel, 5V, 3.2 Gb/s Pin Electronics

**Pin Electronics – Driver**
- 3.2 Gb/s Fmax
- 3 Level Driver w/ Constant Rise Time
- -0.5V to +4.0V Output Range
- Programmable Pre-Compensation
- Constant Power vs. Frequency & Pattern

**Pin Electronics – Comparator**
- 3.2 Gb/s Fmax
- Dual comparators w/ on-chip thresholds
- Differential comparator
- -1V to +4.5V Input Range
- Differential CML Outputs w/ Programmable Pre-Compensation
- 4.0 Gb/s High Frequency Pre-Scalar

**Deskew**
- Coarse Delay (1.26 ns range, 20 ps res)
- Fine Delay
  - Adjustable span from 500 ps to 2.5 ns
  - Resolution from 0.5 ps to 2.5 ps
- Pulse Width Adjust (±127 ps / 1 ps Res)

**Active Load**
- 24 mA / Split Load
- Independent Source and Sink Currents

**2 Pin Serial Port**

**PMU**
- FV / FI / MV / MI Capability
- -1.0V to +4.5V FV Range
- -2V to +5V MV Range
- 5 Current Ranges (4.096 µA to 40.96 mA)
- Programmable Voltage / Current Clamps
- Current Load Compensation

**Measurement Capability**
- MV / MI Capability
- +5V ADC Interface Option
- External Force / Sense Switches
- Monitor (with an External ADC)

**Built-In Self Protection**
- Over Temperature Alarm
- Current / Voltage Clamp Alarm
- DUT Ground Continuity Checker

**FPGA Real Time Interface**
- Differential CML w/ On-Chip Terminations
- Asynchronous (1:1 or 1:4 Fanout)

**Package / Power**
- 10 mm X 10 mm QFN, Lead Free
- Exposed heat slug on bottom
- 72 Lead, 0.5 mm lead pitch
- 750 mW to 1.5 Watt / Channel (Pdq)