**ANALOG TEST ENGINES**

**PE180 – Quad Channel, 7V, 2.0 Gb/s, Pin Electronics**

**Pin Electronics – Driver**
- 2.0 Gb/s Fmax
- 3 Level Driver
- -2.0V to +5.0V Output Range

**Pin Electronics – Comparator**
- 2.0 Gb/s Fmax
- -2.5V to +5.5V Input Range
- Dual comparators w/ on-chip thresholds
- Differential Comparator
- Central AC Calibration Comparator

**Deskew**
- Fine Delay
  - Adjustable span from 400 ps to 5.0 ns
  - Resolution from 0.4 ps to 5 ps
- Pulse Width Adjust (±200 ps / 1.5 ps Res)

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

**FPGA Real Time Interface**
- Differential CML Inputs
- Asynchronous (1:1 or 1:4 Fanout)
- Differential CML Outputs

**PMU**
- FV / FI / MV / MI Capability
- -2.0V to +5.0V Voltage Range
- 5 Current Ranges (50 mA to 5 µA)
- Programmable Voltage / Current Clamps
- DUT Ground Continuity Checker
- Remote Sense Option

**Measurement Capability**
- MV / MI Capability
- External Force / Sense Switches
- Monitor (with an External ADC)
- ±2.5V ADC Interface Option
- Integrated 16-Bit ADC

**Built-In Self Protection**
- Over Temperature Alarm
- Current / Voltage Clamp Alarm

**2 Pin Serial Port**

**Package / Power**
- 10 mm X 10 mm QFN, Lead Free
- Exposed heat slug on bottom
- 72 Lead, 0.5 mm lead pitch
- 1.2W / Channel (No Load)