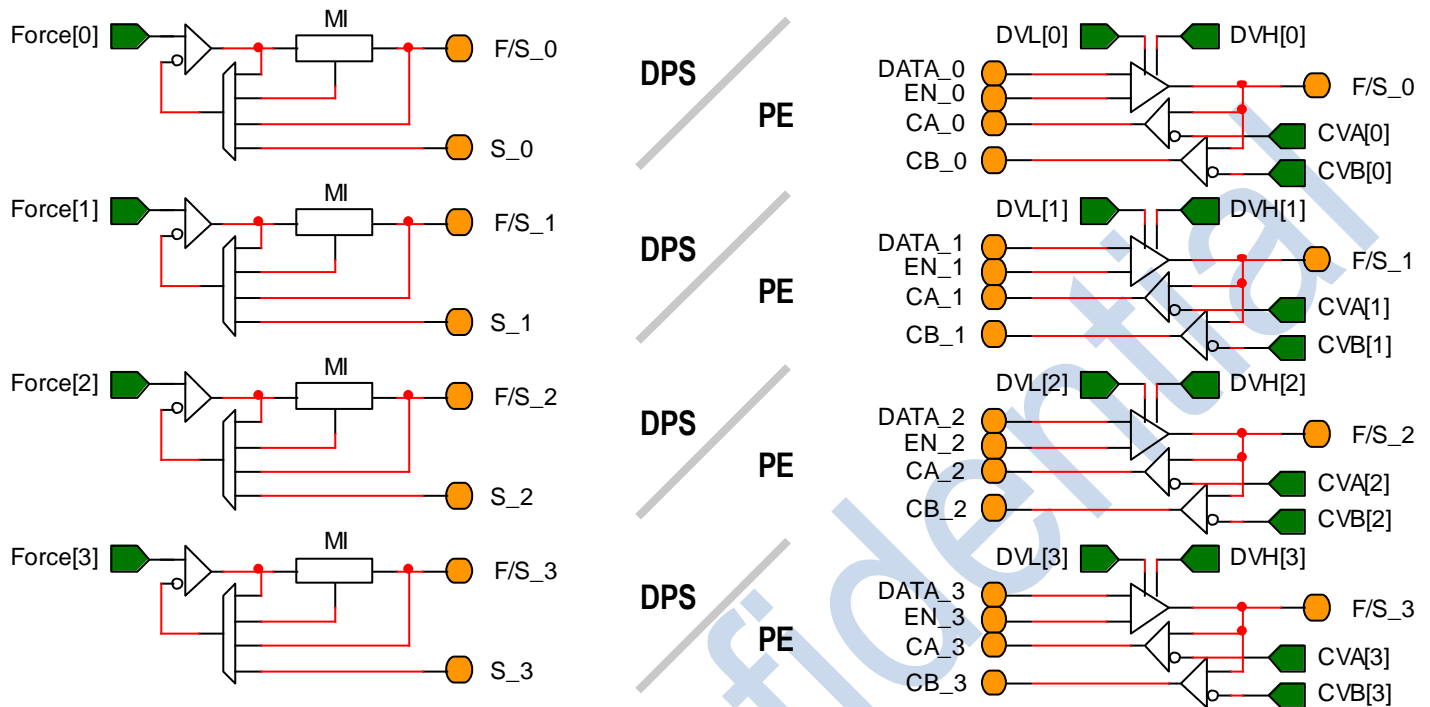


# ANALOG TEST ENGINES



## UTP41 – Quad, 8V, 1A Universal Test Pin

### DPS / PMU

- FV / FI Capability
- -1.5V to +6.5V Force Voltage Range
- 6 Current Ranges (10  $\mu$ A to 1A)
- Programmable Voltage / Current Clamps
- Ganging Capability
- Slew Rate Adjust (0.1V /  $\mu$ s to 5V /  $\mu$ s)
- Force and Sense Guards

### Measurement Capability

- MV / MI Capability
- External Force / Sense Switches
- Analog Monitor
- 5 Independent Integrated 16-Bit ADCs

### Built In Self Protection

- Voltage Clamp / Alarms
- Current Clamp / Alarm
- Over Temperature Alarm
- Over-Voltage Alarm / Glitch Detect
- Over-Current Alarm / Glitch Detect

### Power Amplifier Controller Mode

- Voltage Scaling
- Current Scaling

### Prototype

### Pin Electronics – 2 $\Omega$ / 1A or 50 $\Omega$ Driver

- 50 Mb/s Fmax
- 4 Level Driver
- -1.5V to +6.5V Output Range
- Slew Rate Adjust (0.05 to 0.25 V/ns)

### Pin Electronics – Comparator

- 100 Mb/s Fmax
- Two Sets of Dual comparators
- -1.5V to +6.5V Input Range

### FPGA Real Time Interface

- 1.2V to 1.8V CMOS I/O Compatible

### Serial Port Control

- 2 Pin Serial Port

### Package / Power

- 10 mm X 10 mm FC BGA, w/ Slug on Top
- 81 Ball, 1.0 mm Ball pitch
- 300 mW / Channel (Pd<sub>q</sub>)