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## **SOC Dual Channel 300MHz Pin Electronics/DAC/PMU/Deskew**

#### ISL55162

The ISL55162 is a highly integrated System-on-a-Chip (SOC) pin electronics solution aimed at incorporating every analog function, along with some digital support circuitry, required on a per channel basis for Automated Test Equipment. The interface, control and I/O of the chip are all digital; all analog circuitry is inside the chip. Two complete tester channels are integrated into each chip.

ISL55162 is pin and functionally compatible with Venus, Venus Plus and Venus 2.

#### **Features**

- · Pin Electronics Driver/Comparator
  - 3 Level Driver (DVH/DVL/VTT)
  - 8V Driver Output Swings
  - 16V Comparator Input Voltage Range
  - Extremely Low HiZ Leakage over 16V Range
- Per Pin PMU
  - FV, FI, MV, MI
  - 4 Quadrant Operation
- 8 Current Ranges (32mA, 8mA, 2mA, 512μA, 128μA, 32μA, 8mA, 2μA)
- +13V Super Voltage Capability
- FI Voltage Clamps
- Resistive Load (8 selectable resistor values)

#### Deskew

- Propagation Delay Adjustment
- Falling Edge Adjustment
- Delay Range set by PLL Clock
- · On-Chip DC Levels
  - 11 Levels/Channel
  - Gain and Offset Correction/Level
- DUT Ground Sensing and Correction
- 3-Bit Serial CPU Port
- · Flexible High Speed Digital Inputs and Outputs
  - Selectable On-Chip Terminations for Inputs
- $50\Omega$  Series Termination for Comparator Outputs
- Lead Free Package
  - 64-Lead, 10mmx10mm TQFP with Top Exposed Heat Slug
- Pdg < 1.1W/Channel

#### **Applications**

- · Automated Test Equipment
- Instrumentation
- ASIC Verifiers

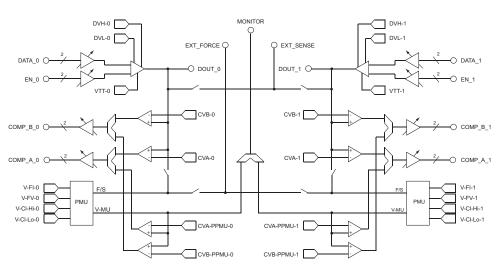


FIGURE 1. BLOCK DIAGRAM

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