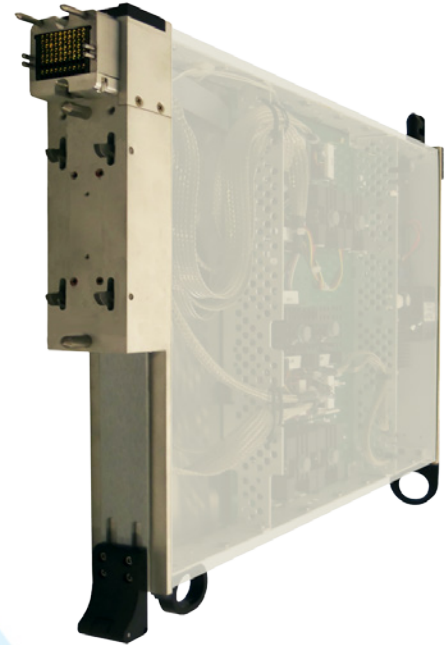


Applications

- Power Supply
- Parametric Measure
- Device Control
- Digital Logic

Overview

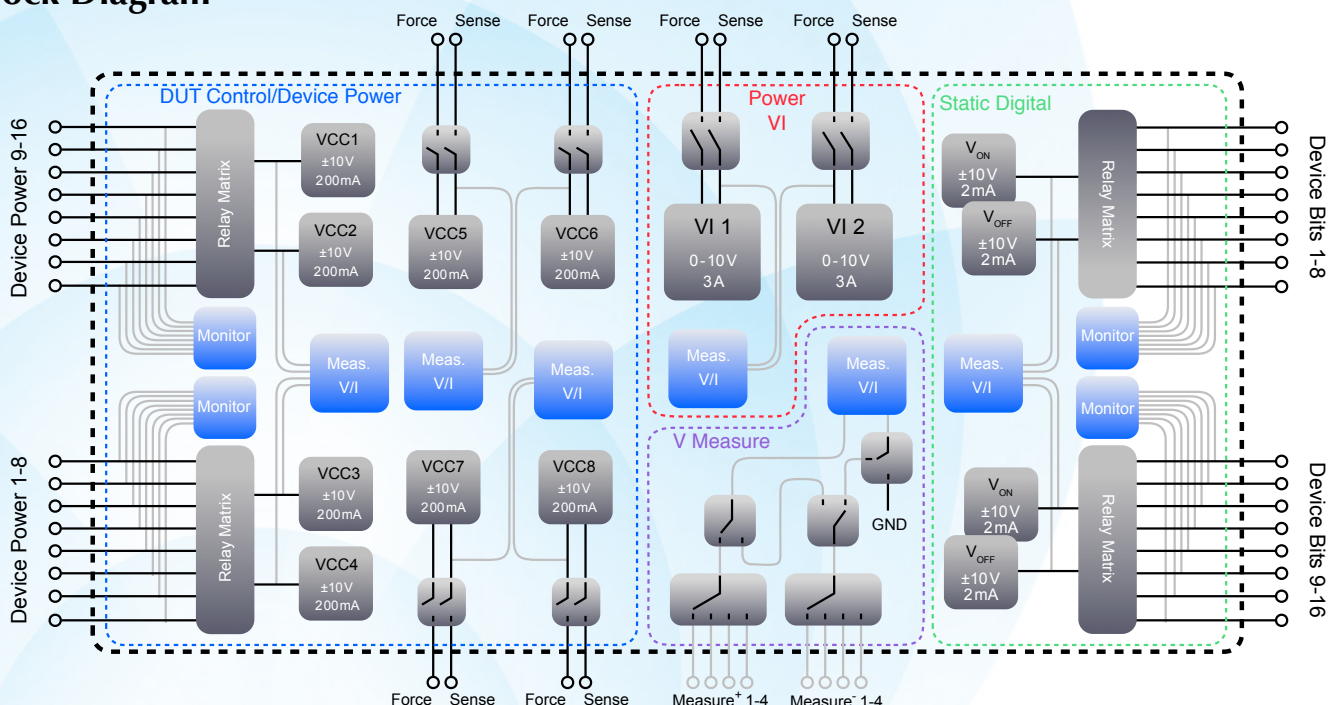
The RI8546 Device Power Instrument provides precision voltage and current supply, digital pin control, and parametric DC measurement in a single instrument. Two high-current power supplies, eight mid-range power supplies, and four low current power supplies provide fast settling voltage and sense feedback for optimal performance in test applications. Eight voltage measure inputs can be configured for differential device applications or ground-referenced multimeter measurements. The internal digital subsystem supports native SPI and I²C protocols in addition to static pin voltage, continuity and current monitoring.



Key Features

- *2 x 3A High Power Supplies, 8 x 200mA Supplies, 16 Static*
- *Digital with Parametric Measure*
- *Protocol-Aware Digital Pin Programming*
- *8 Precision Voltage Measure Inputs*

Block Diagram

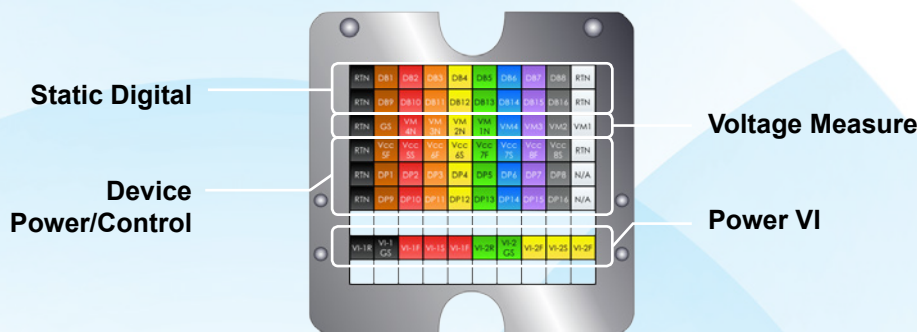


Performance

Supply	Device Power/Control		High Power		V Measure		Static Digital	
Range	±10V	±200mA	0 to 10V	2.5A (max) 3A (pulsed)	±10V	±2mA	±10V	±2mA (max)
Precision	0.3mV	10µA	10mV	-	5mV	1µA	5mV	-
Measure							Protocol	
Range	±10V	250mA to 0.250mA	0 to 10V	30mA to 3A	±10V	±2mA to ±2µA ¹	SPI	60 kbits / 2.5 Mbits
Resolution	0.3mV	36nA	10mV	44µA	1.5mV	290µA to 12pA ¹	I ² C	60 kbits / 2.5 Mbits

¹Range/Resolution limits set by instrument mode

Inputs/Outputs



Cassini Test Systems

A versatile, high-speed, automated test solution for analog, mixed-signal, RF, and millimeter-wave devices.

Cassini provides a modular base architecture that is fully configurable via Test Instrument Modules (TIMs) to meet the needs of any IC, wafer, or module test requirement.

Each TIM contains internally-cooled, RF-shielded measurement instrumentation, signal distribution, and blind mate interfacing to provide targeted test resources and integrate to build up a complete production test platform.

Combined with Roos Instruments' integrated test software, Cassini can be configured to any application for maximum performance, true low cost of test, and the industry's fastest test times.

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