Quad sites' mixed-signal PMIC test solution

High pin-count(48) quad sites PMIC test solution

FEATURES

INTEGRATED POWER SUPPLIES
- One 4A DC/DC Step-Down with by-pass switch option
- Three 2.5A DC/DC Step-Down (Buck) Regulators
- One 750mA LDO with Dedicated Power Supply Input
- Two 150mA LDOs with Shared Power Supply input
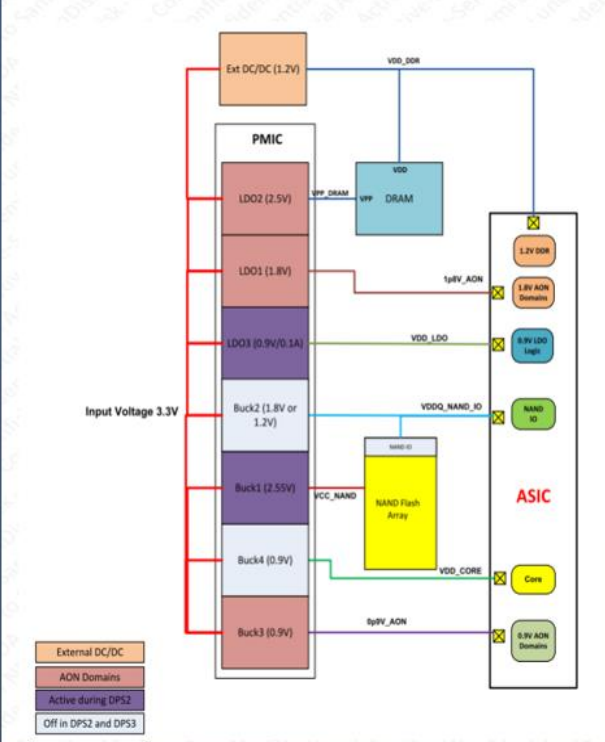- Programmable Reset and Power Good GPIO's

SYSTEM CONTROL AND INTERFACE
- I²C Serial Interface operating at 1Mhz supporting Multiple Register Write Sequence and Multiple Devices on the Bus

Wafer Level Chip-Scale Package

	A	B	C	D	E	F	G	H
1	PGND_B1	SW_B1	SW_B1	VIN_B1	VIN_B1	VIN_B4	SW_B4	PGND_B4
2	PGND_B1	SW_B1	SW_B1	VIN_B1	VIN_B1	FB_B4	SW_B4	PGND_B3
3	PGND_B1	PGND_B2	POK	AVIN	FB_B1	VIN_MODE1	SW_B3	SW_B3
4	SW_B2	SW_B2	IRQ	AGND	PG_B4	VIN_MODE2	FB_B3	VIN_B3
5	VIN_B2	FB_B2	LPM_EXIT	nRESET	EXT_EN	EXT_PG	VIO_IN	VIN_LDO23
6	VIN_LDO1	VOUT_LDO1	nDDR_RESET	SCL	SDA	PWR_DN	VOUT_LDO2	VOUT_LDO3

SYSTEM POWER BLOCK DIAGRAM

Tester configuration:

Module	FOVI	FVI16	FQVI	QTMU	CBIT	DPU32
Quantity	8	4	4	1	2	1

With STT-700(26 slots), SineTest can provide quad sites' test solution for high pin-counts (CSP package with 48 balls) PMIC.

- Tester model: STT-700 (26 slots)
- 4xFQVI provide 16 channels 3A constant current
- 8xFOVI provide 64 channels (each channel 50V/300mA/1A pulse)
- 4xFVI16 provides 64channels 40V/100mA(force&measurement)
- 1xDPU32(100Mhz) provides 32 digital pins which can modify the pattern dynamically
- 1xQTMU provides 4 timing measurement unit
- 2xCBIT provides 144 control bits