



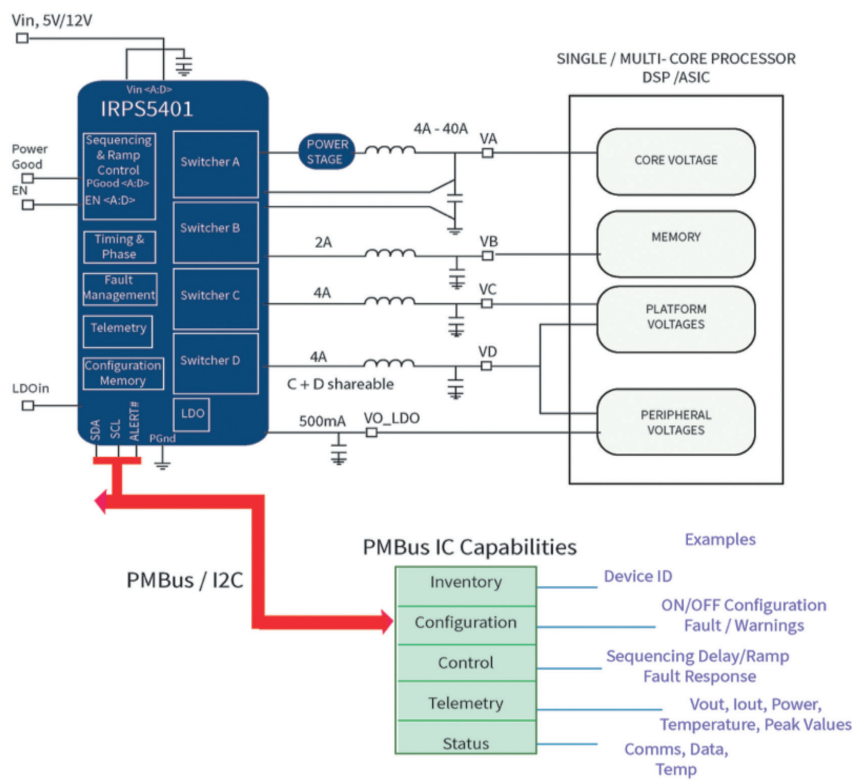
## Product Brief

# Multi-Output PMIC with Integrated Sequencer

## IRPS5401

The IRPS5401 is an integrated power management IC ideal for tight board space requirements; for example, FPGAs, System On Chip ASICs and multi-core processors containing several voltages that require precision accuracy and voltage sequencing.

### Typical PMIC Configuration



### Key features

- > Multi-output DC/DC with integrated FETs and Sequencer
- > Replace many regulators with one PMIC
  - 4 switchers and 1 LDO in one package
  - Output A: 2 A (without), 50 A (with power stage)
  - Output B: 2 A
  - Outputs C,D: 4 A
  - Linear regulator: +/-0.5 A
- > Full PMBus: Margining, Fault Management, Telemetry



# Multi-Output PMIC with Integrated Sequencer

## IRPS5401

### Scalable Power Options for Power Design Flexibility

Example PMIC Configuration 1

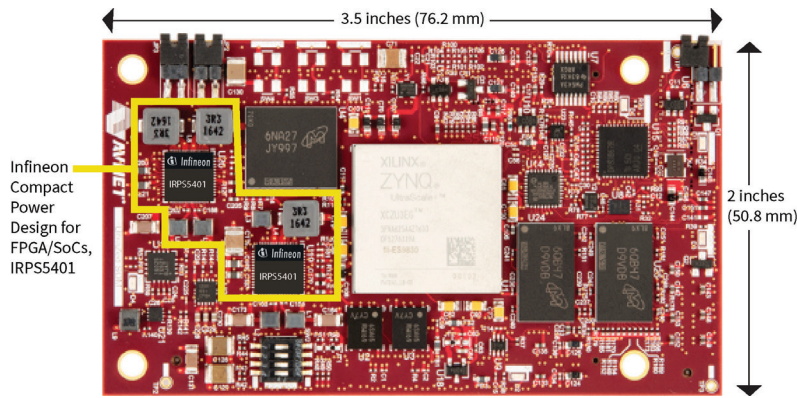
		TDA21242 (<16A)	TDA21240 (<40A)
IRPS5401	Ch A	Core Voltage, 0.72V	0.72V / 0.85V / 0.9V - 9A
	Ch B	System Voltage 3.3V	3.3V - 2A
	Ch C	Core Voltage, 0.85V	0.85V - 8A
	Ch D		
	LDO	PS PLL supply	1.2V - 0.5A

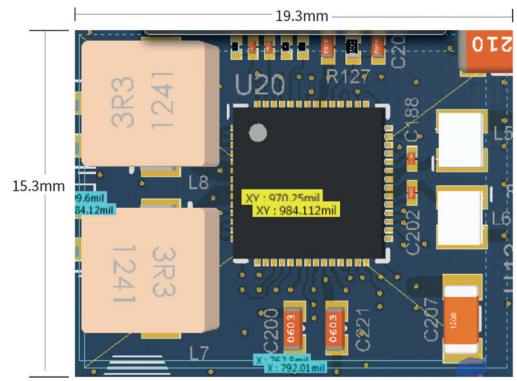
Example PMIC Configuration 2

		TDA21242 (<16A)	TDA21240 (<40A)
IRPS5401	Ch A	SERDES 0.9V	0.9V - 2A
	Ch B	DDR (VCCO_PSDDR4)	1.2V - 1.5A
	Ch C	Auxiliary supply	1.8V - 2A
	Ch D	SERDES / PLL 1.2V	1.2V - 2A - 4A
	LDO	SERDES 0.85V	0.85V - 0.5A

### Compact Power Solutions Includes Sequencer



### Layout savings



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