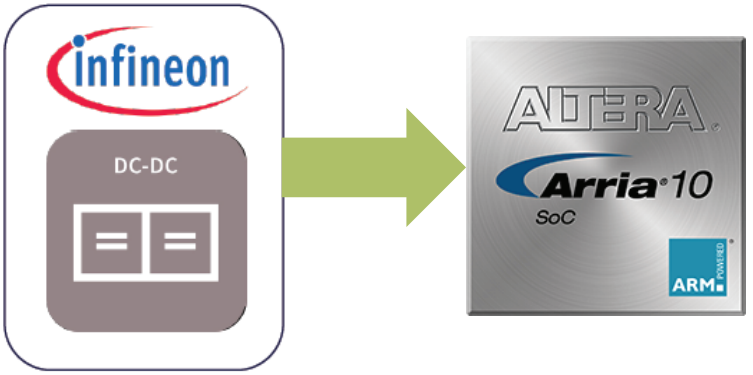
Power Solutions for ALTERA FPGAs & SoCs

Wide Selection of DC/DC power products for FPGAs

Infineon has a wide range of DC/DC power products for Altera FPGA/SoC families: Stratix, Arria, Cyclone, MAX.

Shown below is a design for Arria 10 & Stratix V, 40W - 50W highlighting Infineon's PMBus SupIRBucks and Dual Analog SupIRBucks.

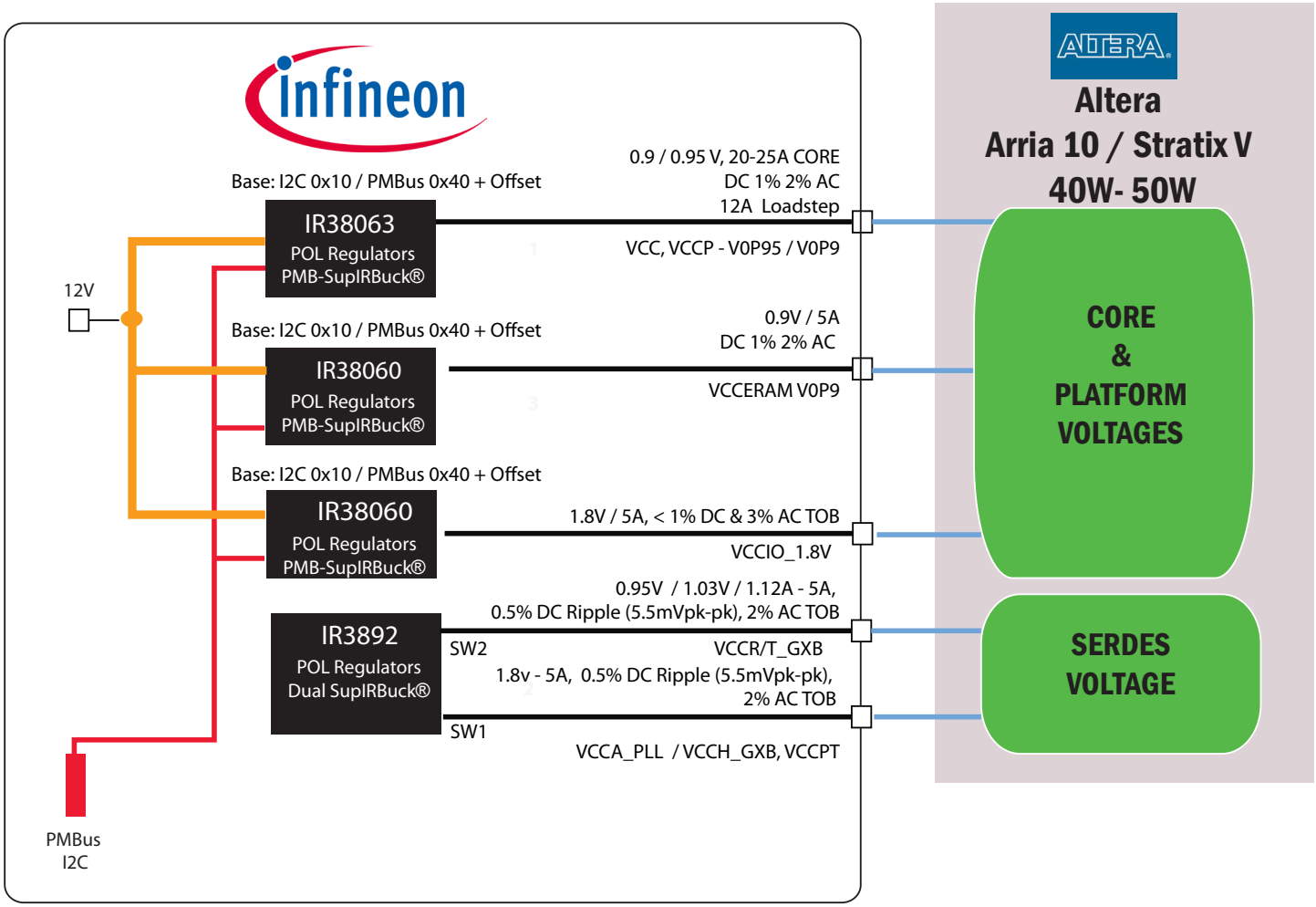
Altera - Arria 10 & Stratix V 40W to 50W



HIGHLIGHTS

IR38063 and IR38060
- 25A and 6A Integrated FET DC/DC Regulator
- PMBus 1.2 Command Set for Advanced Digital Power
- Vout setting, Fault Management, Sequencing, Telemetry

IR3892
- Dual Output Integrated FET DC/DC Regulator
- Compact Design



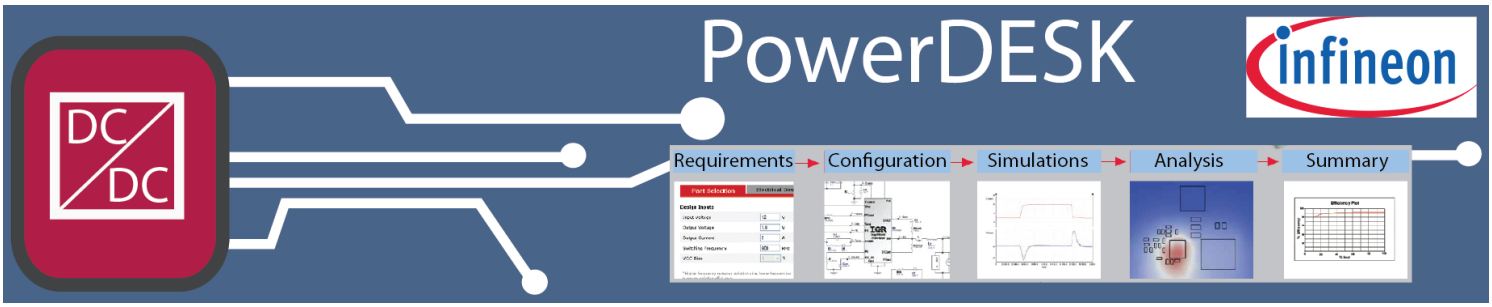
Power Solutions for Altera FPGAs & SoCs

Altera - Arria 10 & Stratix V
40W to 50W

PowerDESK DESIGN TOOL

The table below list the PowerDESK Design Tool files for each of the regulators.

Click the Device and URL in the table below to view the datasheets & design: schematics, components optimization.



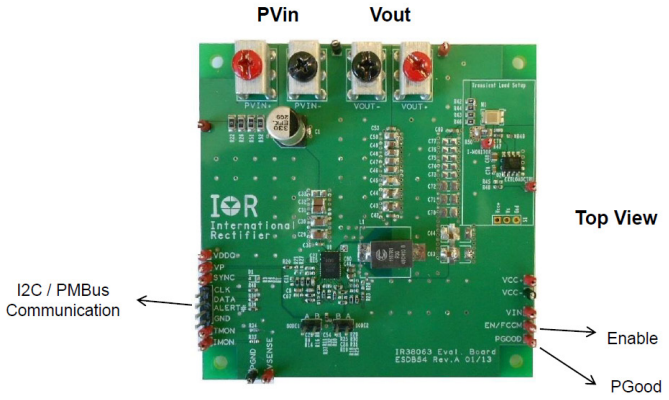
https://infineon.transim.com/powerdesk

FPGA Power Section	Description	Device	Altera Signal Set	URL
Core Voltage	VOUT 0.9V – 0.95V 20-25A	**IR38063**	VCC, VCCERAM, VCCP (SVID option)	http://go.transim.com/hJl
SERDES Voltage	SERDES 1.8V SERDES 0.95V 5A	**IR3892**	0.95V and 1.8V; VCCR/T_GXB and VCCA_PLL / VCCH_GXB, VCCPT	http://go.transim.com/yJy
Platform Voltage	VCCERAM 0.9V 5A	**IR38060**	VCCERAM 0.9V used if Smart VID required.	http://go.transim.com/ssp
Peripheral & Platform Voltage	VCCIO 1.8V 5A	**IR38060**	VCCIO 1.8V Platform and External Peripherals (Clocks, Level Xlators,	http://go.transim.com/nGK
Peripheral	VCCIO 3.3V 10-15A	**IR38062**	Various Ics: Memory, Logic, FMC, SFP+ USB, PCI, SDI	Coming Soon
Peripheral	VCCIO 5V 1.5A to 3A	**IR3883**	Analog, ADC, Sensors	Coming Soon

Altera - Arria 10 & Stratix V 40W to 50W

EVALUATION BOARDS AVAILABLE

Part	Evaluation Board	
IR38063	IRDC38063	view
IR38062	IRDC38062	coming soon
IR38060	IRDC38060	view
IR3892	IRDC3892	view
IR3883	IRDC3883	coming soon



DC/DC Products - All Altera FPGAs

	MAX	Cyclone	Arria	Stratix
Core Voltage	Analog: IR3823 IR3883 New	Analog: IR3823 IR3891 IR3883 New PMIC: IRPS5401 Q4'16	MP-Digital: IR38204 Analog: IR3899 IR3898 IR3897 IR3823 Digital: IR38060 IR38062 IR38063 IR38064 IR38263 Q3'16 PMIC: IRPS5401 Q4'16	MP-Digital: IR38204 Analog: IR3847 IR3848 Digital: IR38060 IR38063 IR38064 IR38263 Q4'16 PMIC: IRPS5401 Q4'16
Platform Voltages			Analog: IR3899 IR3898 IR3897 IR3892 IR3891 Digital: IR38060	Analog: IR3892 IR3891 IR3899 IR3894 IR3895
SERDES Voltages			Analog: IR3897 IR3892 IR3891 IR3823 Digital: IR38060 IR38062	Analog: IR3847 IR3846 IR3894 IR3895 Digital: IR38060 IR38062 IR38063
Peripheral Voltages			Analog IR3883 New IR3823	Analog IR3883 New IR3899 IR3894