

## 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 Cyclone IV, 10W to 15W highlighting Infineon's Analog SupIRBucks with Integrated FETs.

Altera - Cyclone IV  
10W to 15W

### HIGHLIGHTS

Only 2 device types needed for 3 outputs, includes all FETs:

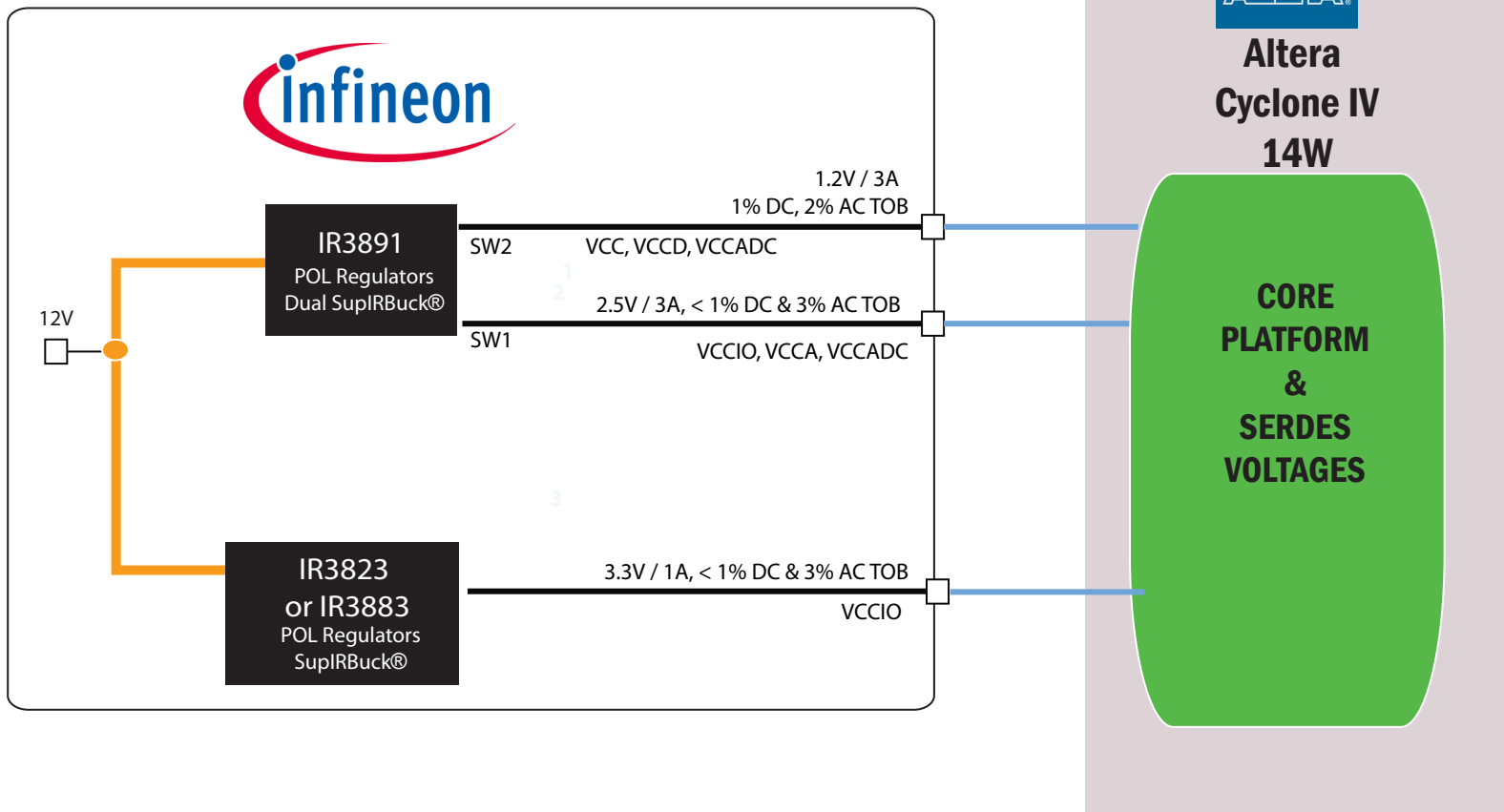
IR3891 Dual 3A + 3A POL

Space saving package for two full regulators with integrated FETs

Device 1: Core voltage and Platform voltages

Device 2: Platform VCCO voltages, settable single resistor designs for output voltage

IR3823 3A Single POL for I/O voltages settable single resistor design for output voltage

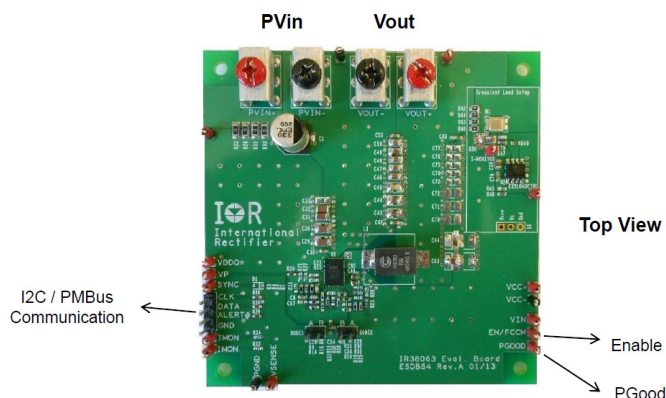


# Power Solutions for Altera FPGAs & SoCs

## EVALUATION BOARDS AVAILABLE

Altera - Cyclone IV  
10W to 15W

| Part   | Evaluation Board |
|--------|------------------|
| IR3891 | IRDC3891         |
| IR3823 | IRDC3823         |
| IR3883 | IRDC3883         |



## DC/DC Products - All Altera FPGAs

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