Build **Vishay** into your **Design**Vishay Power Management Solutions for Altera
Configurable Logic ICs

<i>Input Supply</i>	1 A to 3 A	3 A to 5 A	5 A to 10 A	10 A to 15 A	15 A to 30 A
2.8 V to 5 V	SiP12107	SiP12107 SiP12108			
4.5 V to 16 V	SiP12117 SiP12111 SiP12112	SiP12109	SiP12110 SiC403A/B SiC402A/B	SiC401A/B SiC402A/B	
3 V to 28 V	SiC403A/B	SiC414 / SiC424 SiC403A/B	SiC403A/B SiC402A/B	SiC402A/B (10 A)	SiC401A/B (15 A)

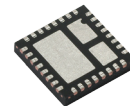
Aria® (GX) V, II, I		Core Voltage: 0.9 V, 1.1 V, 1.2 V		
<i>Input Supply</i>	≤ 1 A to 3 A	≤ 3 A to 5 A	≤ 5 A to 10 A	≤ 10 A to 15 A
2.8 V to 5.5 V	SiP12107	SiP12107 SiP12108		
4.5 V to 15 V	SiP12117 SiP12111 SiP12112	SiP12109	SiC403A/B SiC402A/B	SiC401A/B SiC402A/B
3 V to 28 V	SiC403A/B	SiC414 / SiC424 SiC403A/B	SiC403A/B SiC402A/B	SiC402A/B (10 A)

Cyclone® (GX) V, IV, III, II		Core Voltage: 1.1 V, 1.2 V	
<i>Input Supply</i>	1 A to 3 A	3 A to 5 A	5 A to 10 A
2.8 V to 5 V	SiP12107	SiP12107 SiP12108	
4.5 V to 16 V	SiP12117 SiP12111 SiP12112	SiP12109	SiC403A/B SiC402A/B
3 V to 28 V	SiC403A/B	SiC414 / SiC424 SiC403A/B	SiC403A/B SiC402A/B

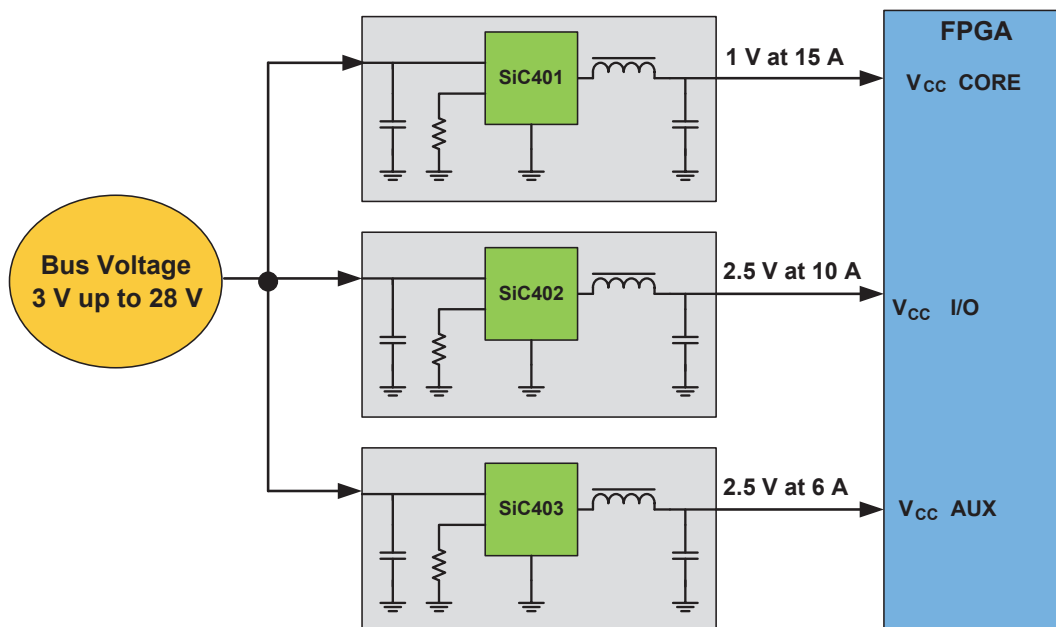
MAX® V		Core Voltage: 1.8 V
<i>Input Supply</i>	1 A to 3 A	3 A to 5 A
2.8 V to 5 V	SiP12107	SiP12107 SiP12108
4.5 V to 16 V	SiP12117 SiP12111 SiP12112	SiP12109
3 V to 28 V	SiC403A/B	SiC414 / SiC424 SiC403A/B

* Products shown in RED are sampling



Build **Vishay** into your **Design**

Complete Power Management Solutions for FPGAs with Vishay Siliconix microBUCK[®] Synchronous Buck Regulators



The microBUCK[®] family of parts offers high levels of efficiency with the flexibility to change the switching frequency, the over current limit, the output voltage, or simply the soft start timing, along with a number of protection features in a compact package. The family is able to achieve high efficiency at sub-volt outputs, which enhances their use in FPGA power solutions where the core operational voltage is reducing below a volt. The microBUCK family operates in constant on time (COT), which means that the transient response is ultra fast with minimal over- and undershoot under transient load step.

FEATURES

- Programmable switching frequency
- OT, OC, OT, and UVLO protection
- Ultra-fast transient response
- Stable with any output capacitor
- No external 5 V bias required
- $\pm 1\%$ voltage accuracy
- Light load efficiency enhanced with power save mode
- Controller, driver, and integrated MOSFETs in a compact package
- Online simulator

INFORMATION

Product Page

www.vishay.com/power-ics/integrated-microbuck/

PowerCAD Web Design Tool

<http://vishay.transim.com/login.aspx>

FPGA Power Supply Considerations

www.vishay.com/docs/62830/fpgapowersupplyconsideration.pdf

microBUCK Family Product Sheet

www.vishay.com/doc?49994