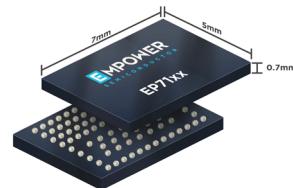


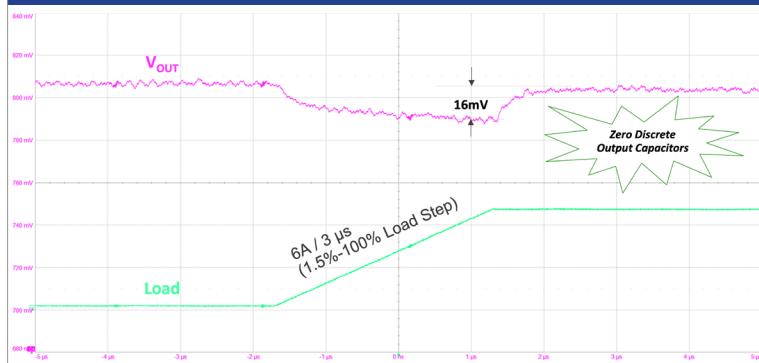
EP70XX

- 12A total current from $3.3V_{IN}$
- Up to 4 outputs (0.5V to $2.5V_{OUT}$ range)
- Integrated Input and Output Capacitors
- World's fastest transient response (<30mV droop for 12A/2 μ s step)
- Ultra-fast Dynamic Voltage Scaling (DVS) (up to 5mV/ns)
- Integrated Programmable Power Sequencing
- Wide IO signaling range for Digital Interface (1.1 - 3.6V)
- 5 x 7 x 0.7mm FcCSP Package

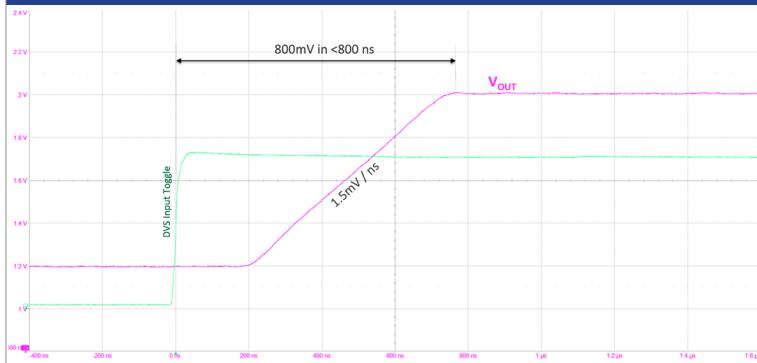


World's Fastest Switching IVR™

World's Fastest Transient Response

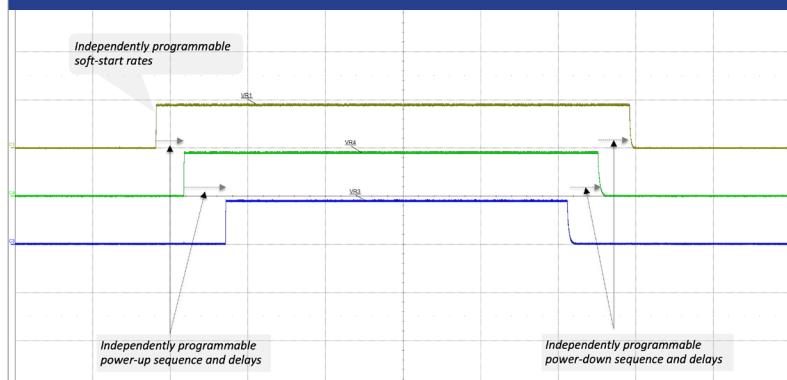


Ultra-Fast Voltage Scaling



Built-in Programmability for Simple System Design

Fully Integrated Programmable Power Sequencing



Digital Interface

Controls & Programmability

- ✓ Enable
- ✓ Output Voltage
- ✓ Slew Rates (start-up, DVS)
- ✓ GPIO Programming

Monitoring

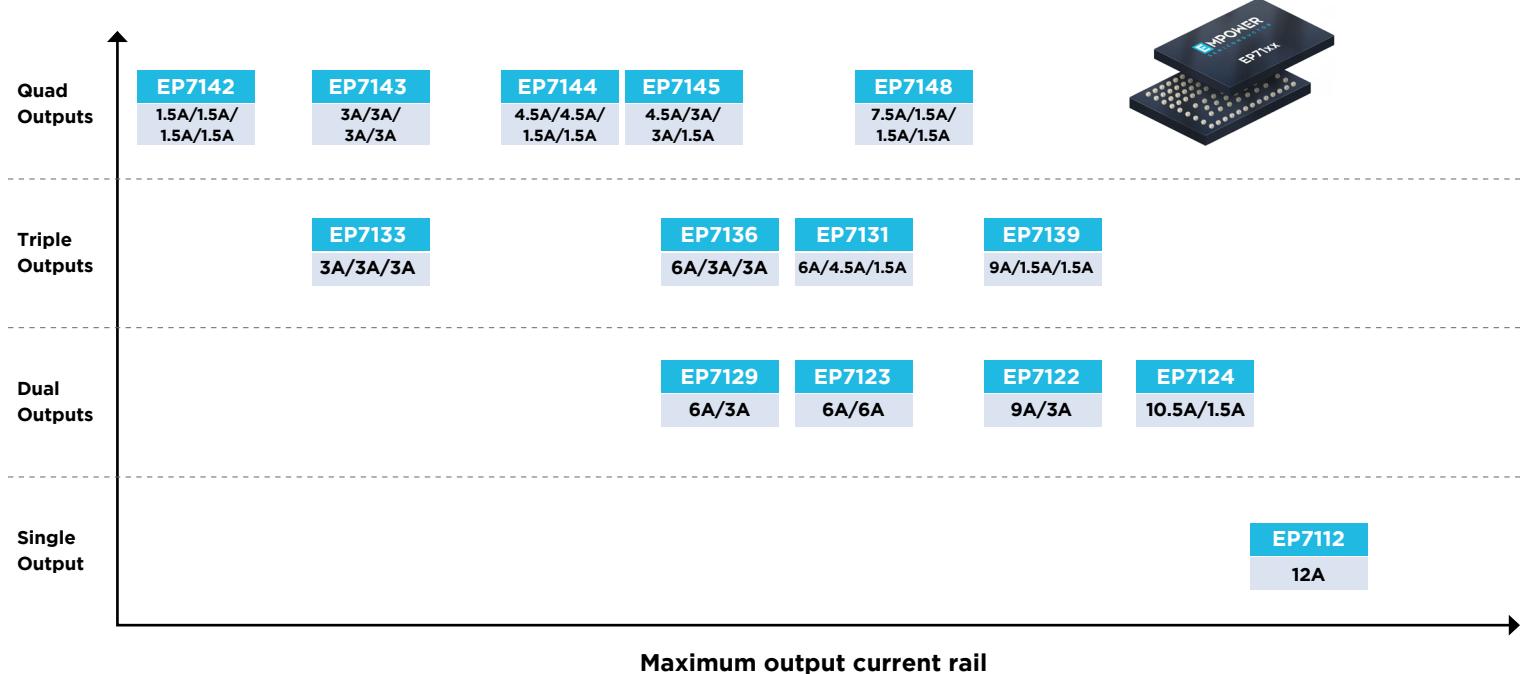
- ✓ System Fault & Protection Status
- ✓ Voltage, Current Telemetry
- ✓ VR Operating Status

MTP

- ✓ Output Voltages
- ✓ Power up/down Sequencing
- ✓ Slew Rates
- ✓ Features (GPIO Functions)

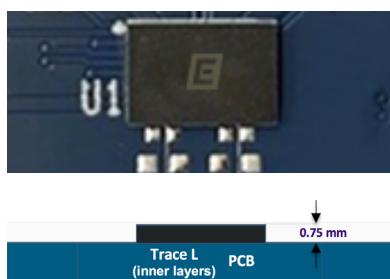


Configurable Family Covers Wide System Requirements

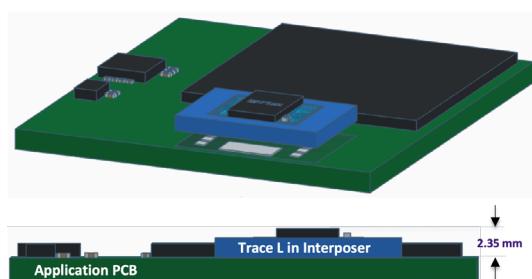


Implementations to Suit Varying Constraints

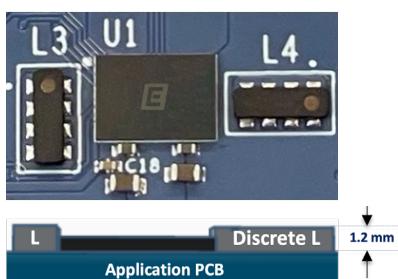
Smallest BOM / Lowest Cost Solution



Fastest Design Cycle / Easiest Deployment



Most Flexible PCB Design



EP71xx + PCB Inductors

- <5 component BOM
- 40 mm² top side area
- 0.75mm solution height

EP71xx on PCB Interposer

- Single component solution
- 155 mm² solution area
- 2.35mm solution height

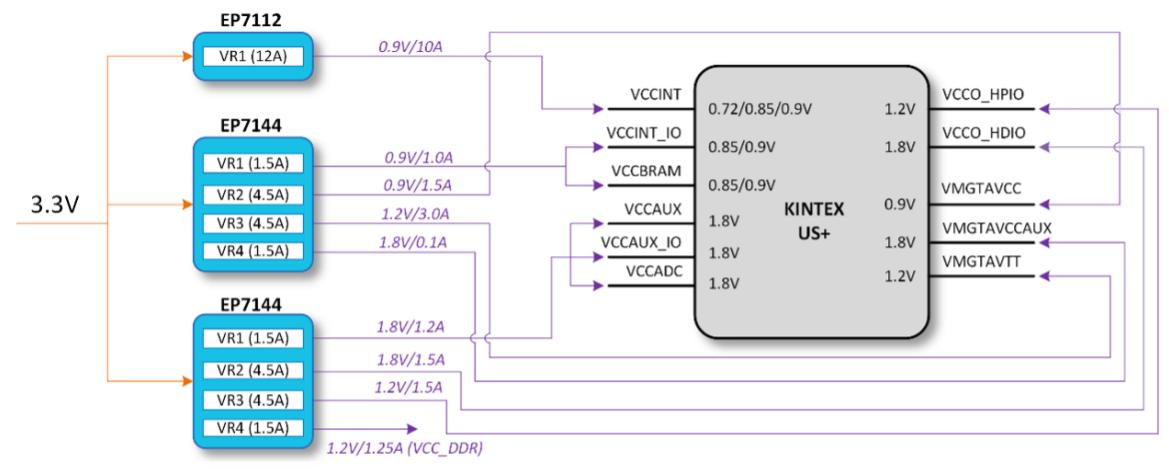
EP71xx + Magnetic Inductors

- 3-7 component BOM
- 135 mm² solution area
- 1.2mm solution height

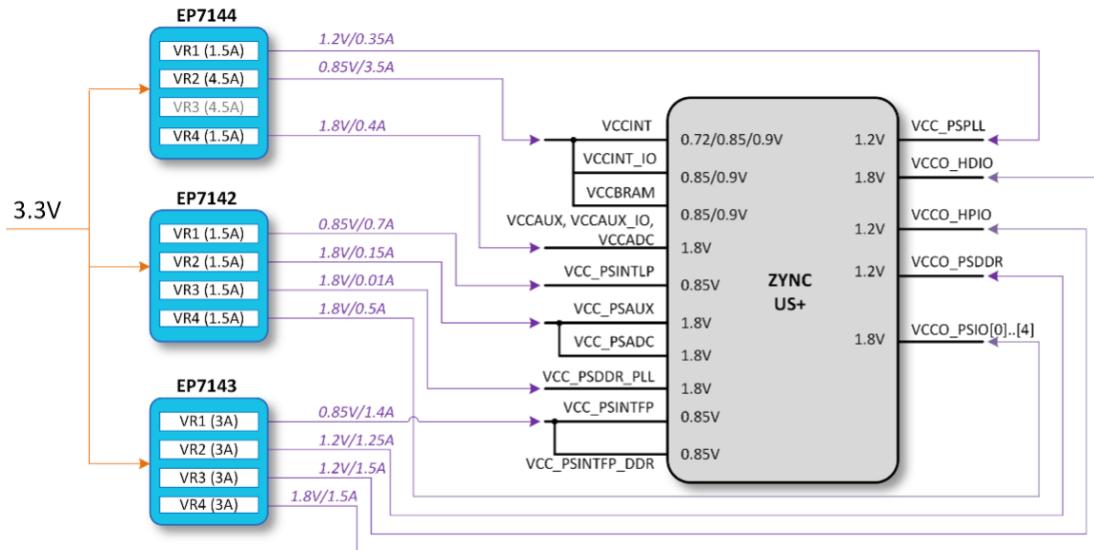


Simplify Xilinx FPGA Designs with the EP71xx Family

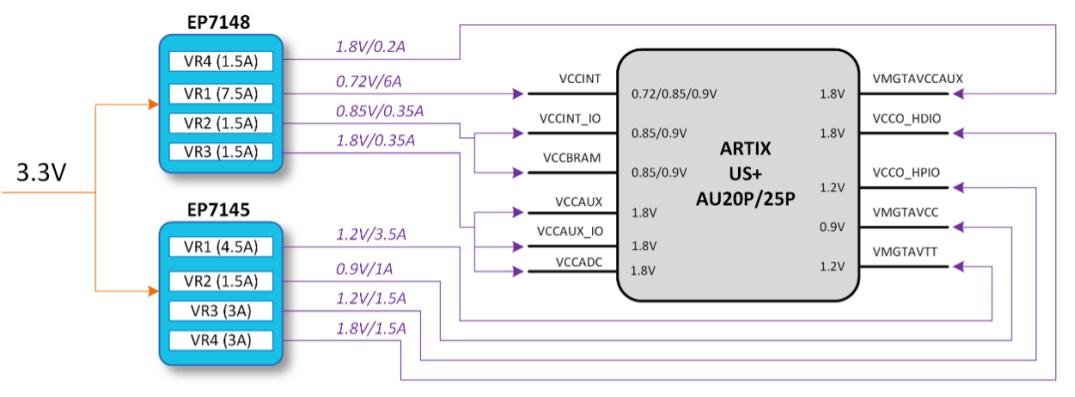
Reference Design for Xilinx Kintex Ultrascale+



Reference Design for Xilinx Zync Ultrascale+



Reference Design for Xilinx Artix Ultrascale+ AU20P/25P

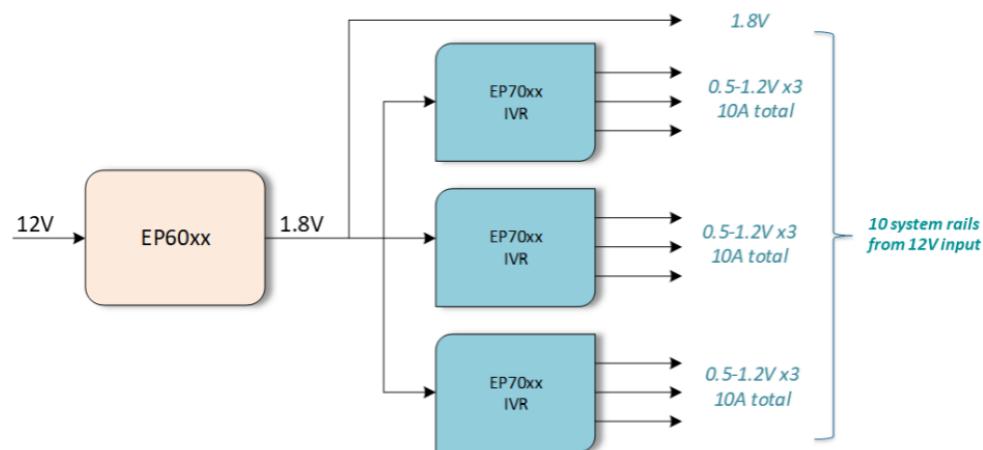




Simplified 12V Solutions through two-stage approach

EP60xx

- 15A/30A total current from single output
- High Efficiency (94% peak)
- 12V_{IN} Optimized (5-24V range)
- 5 x 5mm Package
- Optimal first stage for 12V applications

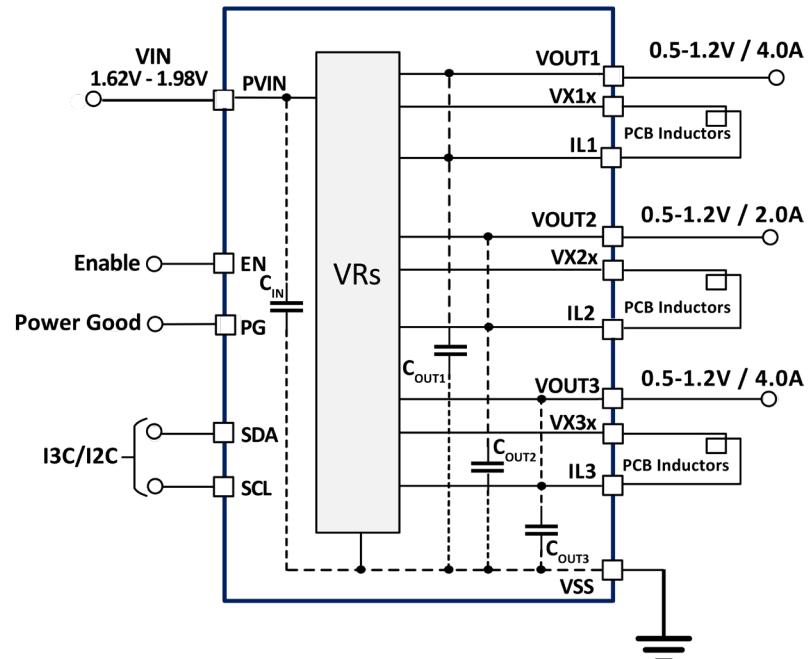


EP70xx IVR™

- 10A total current from 1.8V_{IN}
- Up to 3 outputs (0.5V to 1.2V_{OUT} range)
- World's fastest transient response (<20mV droop for 10A/500ns step)
- Ultra-fast Dynamic Voltage Scaling (DVS) (up to 5mV/ns)
- 5 x 5mm Solution

Optimal for Package Integration!

EP7038C



Distributors



SEKORM



COMITECH 科通

E 赛博联电子有限公司
CYBERLINK ELECTRONICS CO., LTD.

M MOUSER
ELECTRONICS