



Power Management Solutions for Xilinx Programmable Logic Devices

VIRTEX-II PRO™ & VIRTEX™-II						Core Voltage: 1.5V
<i>Input Supply</i>	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V	LT1962 Linear	LT1763 Linear	LT3150 Linear	LT3150 Linear	LTC3713 Controller	LTC3713 Controller
2.5V to 5V	LT1962 Linear LTC3405A-1.5 Switcher	LT1763 Linear LTC3406-1.5 Switcher	LTC3412 Switcher	LTC3414 Switcher LTC3801 Controller	LTC3801 Controller LTC1773 Controller	LTC3713 Controller LTC3832 Controller LTC1778 Controller
≤12V	LT1616 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LTC1771 Controller LTC1778 Controller	LTC1778 Controller	LTC1778 Controller
≤24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller

VIRTEX-E						Core Voltage: 1.8V
<i>Input Supply</i>	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V	LT1613 SEPIC	LT1949 SEPIC	LT1618 SEPIC LT1308 SEPIC	LTC3713 Controller	LTC3713 Controller	LTC3713 Controller
2.5V to 5V	LTC3405A-1.8 Switcher	LTC3406-1.8 Switcher	LTC3412 Switcher	LTC3414 Switcher LTC3801 Controller	LTC3801 Controller LTC1773 Controller	LTC3713 Controller LTC3832 Controller LTC1778 Controller
≤12V	LT1616 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LTC1771 Controller LTC1778 Controller	LTC1778 Controller	LTC1778 Controller
≤24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller

Spartan™-3						Core Voltage: 1.2V
<i>Input Supply</i>	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V	LT1962 Linear	LT1763 Linear	LT3150 Linear	LT3150 Linear	LTC3713 Controller	LTC3713 Controller
2.5V to 5V	LTC3405A Switcher	LTC3406 Switcher	LTC3412 Switcher	LTC3414 Switcher LTC3801 Controller	LTC3801 Controller LTC1773 Controller	LTC3713 Controller LTC3832 Controller LTC1778 Controller
≤12V	LT1616 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LTC1771 Controller LTC1778 Controller	LTC1778 Controller	LTC1778 Controller
≤24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller

Spartan-II-E						Core Voltage: 1.8V
<i>Input Supply</i>	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V	LT1613 SEPIC	LT1949 SEPIC	LT1618 SEPIC LT1308 SEPIC	LTC3713 Controller	LTC3713 Controller	LTC3713 Controller
2.5V to 5V	LTC3405A-1.5 Switcher	LTC3406.8 Switcher	LTC3412 Switcher	LTC3414 Switcher LTC3801 Controller	LTC3801 Controller LTC1773 Controller	LTC3713 Controller LTC3832 Controller LTC1778 Controller
≤12V	LT1616 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LTC1771 Controller LTC1778 Controller	LTC1778 Controller	LTC1778 Controller
≤24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller

DDR Memory Termination:

- LTC3413 Switcher, 3A
- LTC3717 Controller, 20A
- LTC3718 Controller, 20A, 1.5Vin

Power Supply Tracking:

- LTC3708
- LTC2923

I/O & System Power Supply:

- LTC3728 Dual
- LTC3407 Dual
- LTC3729 40A
- LTC3731 60A-200A

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Spartan-II **Core Voltage: 2.5V**

Input Supply	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V	LTC3400 Switcher	LTC3402 Switcher	LT3467 Switcher LTC3402 Switcher	LTC3421 Switcher LTC1872 Controller	LTC3425 Switcher	LT1619 1.9V, Controller
2.5V to 5V	LTC3441 BuckBoost LTC3405A Buck	LTC3441 BuckBoost LTC3406 Buck	LT1619 SEPIC LTC3412 Buck	LT1619 SEPIC LTC3414 Buck LTC3801 Buck	LT1619 SEPIC LTC3801 Buck LTC1773 Buck	LTC3713 Boost+Buck LTC3832 Buck 3.3V LTC1778 Buck 5V
≤12V	LT1616 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LTC1771 Controller LTC1778 Controller	LTC1778 Controller	LTC1778 Controller
≤24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller

CoolRunner™-II **Core Voltage: 1.8V**

Input Supply	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V ±10%	LT1613 SEPIC LTC3423 Boost	LT1949 SEPIC LTC3423 Boost	LT1618 SEPIC LT1308 SEPIC LTC3423 Boost	Charge Pump + BuckBoost LTC1682 + LTC1778	LTC1682 + LTC1778	LTC1682 + LTC1778
2.5V to 5V	LTC3405A - 1.8 Switcher	LTC3406-1.8 Switcher	LTC3412 Switcher	LTC3414 Switcher LTC3801 Controller	LTC3801 Controller LTC1773 Controller	LTC3713 Controller LTC3832 Controller LTC1778 Controller 5V
≤12V	LT1616 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LTC1771 Controller LTC1778 Controller	LTC1778 Controller	LTC1778 Controller LTC3778 Controller
≤24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller LTC3778 Controller

CoolRunner XPLA3 & XC9500XL **Core Voltage: 3.3V**

Input Supply	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V - 2.5V	LT1613 Switcher LTC3400 Switcher	LT1949 Switcher LTC3402 Switcher	LTC3421 Switcher	LTC3421 Switcher LT1619 Controller	LTC3425 Switcher LTC3713 Controller	LTC3713 Controller
3.3V	LTC3440 BuckBoost	LTC3440 BuckBoost	LTC3441 BuckBoost LT1372 SEPIC	LTC1872 SEPIC	LT1619 SEPIC	Charge Pump + BuckBoost LTC1682 + LTC1778
5V - 24V	LT1962 Linear 20V LT1616 Switcher	LT1763 Linear 20V LT1976 Switcher	LT1976 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller	LTC1778 Controller LTC3778 Controller

XC9500XV (2.5V) **Core Voltage: 2.5V**

Input Supply	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V	LTC3400 Boost	LTC3402 Boost	LT3467 Boost LTC3402 Boost	LTC3421 Boost LTC1872 Boost	LTC3425 Boost LTC1700 Boost	LT1619 1.9V, Controller
2.5V	LTC3441 BuckBoost	LTC3441 BuckBoost	LT1619 SEPIC	LT1619 SEPIC	LT1619 SEPIC	Charge Pump + BuckBoost LTC1682 + LTC1778
≤3.3 - 5V	LT1962 Linear LTC3405A Switcher	LT1763 Linear LTC3406 Switcher	LTC3412 Switcher LTC3414 Switcher	LTC3414 Switcher LTC3801 Controller	LTC3414 (4A) LTC1773 Controller	LTC3713 Controller LTC1778 (5V) LTC3778 Controller
≤12V - 24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller LTC3778 Controller

XC9500 (5V) **Core Voltage: 5V**

Input Supply	≤200mA	≤500mA	≤1A-1.5A	≤2A-2.5A	≤3A-5A	≤25A
1.8V - 2.5V	LTC3400 Boost	LTC3402 Boost	LTC3421 Boost LTC1700 Boost	LTC3421 LTC1872 (2.5V)	LTC3425 Boost LTC1700 Boost	LT1619 1.9V, Controller
3.3V	LTC3400 Boost	LTC3402 Boost	LTC3421 Boost LTC1700 Boost	LTC3421 LTC1872 (2.5V)	LTC3425 Boost LTC1700 Boost	LT1619 Controller
≤12V - 24V	LT1934 Switcher	LT1976 Switcher LT1767 Switcher	LT1976 Switcher LT3431 Switcher LTC1778 Controller	LT3431 Switcher LTC1778 Controller	LTC1778 Controller	LTC1778 Controller LTC3778 Controller



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