



Xilinx - SK-CRII-L-G - CPLD - Starter Kit

Product Overview:

The Cool RunnerTM-II Evaulation Board is a complete USB-powered circuit development platform for the Xilinx Cool Runner-II CPLD. The board includes highly efficient power supplies, a user configurable oscillator, several user I/O devices, a real-time current meter, and a USB port for board power and CPLD programming. The board includes five expansion connectors that route 64 signals available from the CPLD to external circuits to expand board capability.



Kit Contents:

The Cool Runner-II Starter Kit includes:

- Cool Runner-II CPLD evaluation board with an XC2C256-TQ144 device
- USB 2.0 cable for power, programming and data transfer
- 16x2 character LCD
- 9V battery connector for optional battery power
- · Quick Start Guide
- ISE Web Pack Software
- Resource CD

Key Features:

- A 256 macrocell Cool Runner-II CPLD in a TQ-144 package
- An on-board USB port for board power, CPLD programming, and user data transfers
- An on-board three-channel 16-bit Δ-Σ A/D converter that measures real-time current on VCCINT
 and the two VCCIO banks during board operation (data is sent to the PC for display via the USB
 cable)



- A user-configurable silicon oscillator (1000/100/10 kHz), plus a socket for a second crystal oscillator
- 64 I/O signals available on expansion connectors (32 on Pmod connectors; 32 on a parallel connector)
- · Pads for an on-board SPI PROM

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
SK-CRII-L-G	Xilinx	1670944	19P1156

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
XC2C256	Xilinx	CPLD Cool Runner-II	1605830	12N2453
LTC2494	Linear Technology	Delta Sigma ADC	NA	56M5754
LT3028	Linear Technology	Linear Voltage Regulator	1273641	57M8046
LTC6900	Linear Technology	Oscillator	19P2430	1663921

Similar Products:

Part Number	Manufacture r	Description	Support Device	Farnell P/N	Newark P/N
DK-MAXII-1270N	Altera	DEVELOPMENT KIT, MAX II CPLD	EPM1270F25 6C5	1428132	58M4977
MAX-CPLD PROMO	Altera	DEVELOPMENT BOARD KIT, CPLD BUNDLE	EPM1270F25 6C5	1526458	74M2963
ATF15XX-DK3	Atmel	KIT, CPLD DEVELOPMENT FOR ATF15XXBE	ATF15xx	1551776	94M6249



Document List:

Datasheets:

Part Number	Description	Size
SK-CRII-L-G	Cool Runner-II Evaluation Board Reference Manual	643 KB
LTC2494	LTC2494 - 16-Bit 8-/16-Channel Delta Sigma ADC	538KB
XC2C256	XC2C256 Cool Runner-II CPLD Datasheet	303KB
LT3028	LT3028 Regulator Datasheet	336KB
LTC6900	LTC6900 Oscillator Datasheet	155KB

Application Notes:

File Name	Size
XAPP058 - Xilinx In-System Programming Using an Embedded Microcontroller	641KB
XAPP104 - A Quick JTAG ISP Checklist	55KB
XAPP317 - Power Evaluation Equation for CoolRunner-II CPLDs	71KB
XAPP336 - Design of a 16b/20b Encoder/Decoder Using a CoolRunner CPLD	344KB
XAPP341 - UARTs in Xilinx CPLDs	27KB
XAPP347 - Decrease Processor Power Consumption Using a CoolRunner CPLD	83KB
XAPP348 - CoolRunner XPLA3 Serial Peripheral Interface Master	147KB

Hardware & Software:

File Name	Size
Cool Runner-II Starter Kit Peripheral Module Bundle	-
Cool Runner-II Starter Kit Quick Start Guide	644KB
Cool Runner-II Starter Kit Product Brief	1.3MB
Free ISE Web PACK	88.8MB

