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## Cyclone V Soc Fpga Development Board Reference Manual

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The Cyclone V SoC development board provides a hardware platform for developing and prototyping low-power, high-performance, and logic-intensive designs using Altera's Cyclone V SoC. The board provides a wide range of peripherals and memory interfaces to facilitate the development of Cyclone V SoC designs.

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Overview SoCKit - the Development Kit for New SoC Device The SoCKit Development Kit presents a robust hardware design platform built around the Altera Cyclone V System-on-Chip (SoC) FPGA, which combines the latest Cortex-A9 embedded cores with industry-leading programmable logic for ultimate design flexibility.

## ~~Terasic - SoC Platform - Cyclone - SoCKit - the ...~~

FPGA Device • Cyclone V SoC 5CSXFC6D6F31 Device • Dual-core ARM Cortex-A9 (HPS) • 110K Programmable Logic Elements • 5,140 Kbits embedded memory • 6 Fractional PLLs • 2 Hard Memory Controllers • 3.125G Transceivers. Configuration and Debug • Quad Serial Configuration device – EPCQ256 on FPGA

## ~~SOCKIT by Arrow Development Tools | Programmable Logic ...~~

<http://bit.ly/1IQxpcq> Setting up Altera OpenCL Run-Time Environment on Altera Cyclone V

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The Cyclone V SoC and its associated development kits have a comprehensive operating system ecosystem support as listed below: - Linux is the most common general-purpose operating system used on ARM-based SoCs. The Cyclone V SoC is no different, with comprehensive support offered by both Altera and a large user community.

~~Cyclone V SoC FPGA Development Kits Enable Software Design ...~~

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Cyclone V SoC is a new SoC tightly coupling with Dual-core ARM Cortex-A9 and FPGA fabric, enabling easy development of complex systems with advanced application processing and flexible hardware using FPGA.

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The Intel SoC FPGA Embedded Development Suite Standard Edition, Version 20.1 includes functional and security updates. Users should keep their software up-to-date and follow the technical recommendations to help improve security. Additional security updates are planned and will be provided as they become available.

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