

QuickLogic® Companion Solutions

For the Marvell® PXA Application and Communication Processor Families

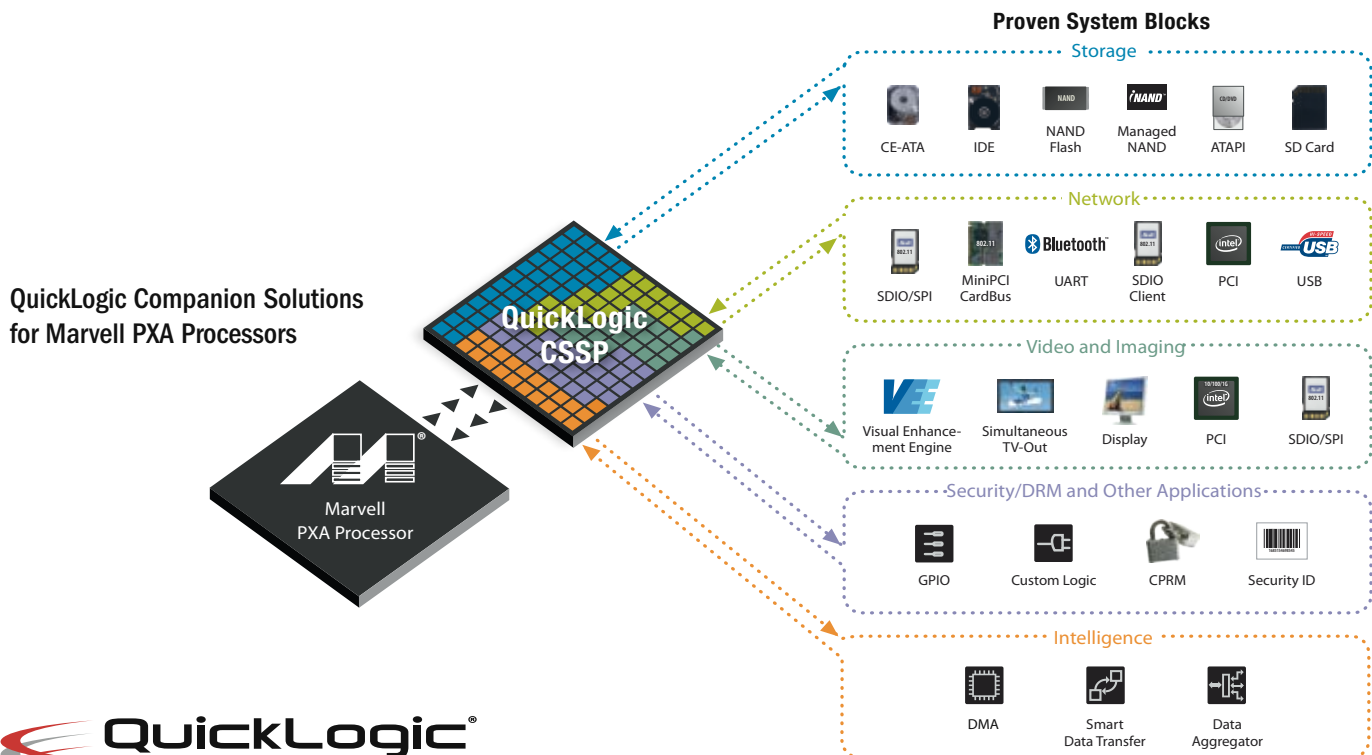
QuickLogic's Customer Specific Standard Product (CSSP) Solutions

- Offer designers the integration and flexibility to accelerate time-to-market and differentiation in the mobile market
- Provide a unique combination of hard-wired application specific logic and a flexible programmable fabric for adapting CSSPs as market conditions change, resulting in longer time-in-market
- Solve the “connectivity gap” between application processors and emerging new standards and feature requirements

Answers to Mobile Market Designer Challenges

Mobile product system architects and designers face an increasingly difficult challenge. Products themselves are becoming more complex, while the schedule and budget for product developments are shrinking. Consumers are insatiable in their demands for more features in mobile products and these feature sets change rapidly. These challenges require a more flexible approach to system design once an application processor has been chosen.

QuickLogic solves these challenges by providing semiconductor solutions that have both high levels of integration and proven functionality of application specific standard products (ASSPs), with the customer-specific functionality of application-specific integrated circuits (ASICs). QuickLogic calls this unique combination of functionality a Customer Specific Standard Product (CSSP). CSSPs from QuickLogic enable high-integration, ability to customize and fast time-to-market which no other technology can deliver. QuickLogic CSSPs are the perfect platform to be a companion device to Marvell's PXA application and communication processors.



QuickLogic CSSP Solution Platforms

ArcticLink™ Solution Platform



The ArcticLink solution platform family is designed specifically to meet the unique connectivity and imaging requirements of handheld devices, which demand integration of multiple functions with high-performance and flexibility. ArcticLink solution platforms provide hardwired building blocks such as Hi-Speed USB 2.0 On-The-Go (OTG), SD, SDIO, MMC, CE-ATA and VEE™, and an embedded ultra-low power array of programmable fabric for additional connectivity and custom functions.

ArcticLink CSSP's programmable fabric flexible building blocks, combined with the hardwired building blocks, provides a compact, single-chip solution that reduces BOM costs, saves board space, eases system-level design trade-offs and improves the end product's time-to-market and time-in-market.

PolarPro® Solution Platform



The award winning PolarPro family of programmable platforms, including PolarPro and PolarPro II, were purposely architected to meet the interconnect and system logic requirements of power sensitive and portable applications. The PolarPro solution platform family offers a spectrum of platforms with varying amounts of programmable fabric, embedded SRAM, programmable I/Os and advanced clock management. It is an ideal platform to complement connectivity solutions such as SD/SDIO/ MMC/CE-ATA, IDE (P-ATA), High Speed UARTs, and PCI among others.



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QuickLogic Proven System Blocks

Storage

- IDE/P-ATA Host Controller
- CE-ATA Host Controller
- NAND Flash Controller
- Secure Digital (SD) Card Host Controller
- Compact Flash (CF) Host Controller
- Multimedia Card (MMC) Controller
- Memory Stick (MS) Controller
- Managed NAND Controller with Boot Capability
- Optical Drive Controller (ATAPI)

Network

- Hi-Speed USB Controller
- High-Speed SDIO Controller
- MiniPCI for Ethernet, Wi-Fi/WiMAX Controller
- SPI Controller
- Bluetooth 2.x + EDR High-Speed UART
- USB Controller for Wi-Fi / WiMAX
- SDIO Client
- USB Hub

Video and Imaging

- Visual Enhancement Engine (VEE™)
- MIPI DSI with Built-in D-PHY
- X/Y Swap
- High-definition LCD Controller

Intelligence

- Direct Memory Access (DMA)
- Smart Data Transfer (SDT)
- Data Aggregator (DA)

Security and Custom Options

- Content Protection for Recordable Media (CPRM)
- Serial ID

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