Smart Networks Alliance Solutions Brief

FEATURING HCL TECHNOLOGIES Freescale Semiconductor, Inc.



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ACHIEVING FASTER TIME-TO-INNOVATION WITH HCL TECHNOLOGIES' DESIGN SERVICES AND MOTOROLA NETWORK PROCESSORS

As the global networking infrastructure shifts from a hierarchy of fixed devices to an array of appliances with diverse connections to the Internet, developers of packet services are under increasing pressure to innovate quickly. Emerging networking solutions must support the new devices — with wireless, DSL, cable, satellite, and optical connections — at wire speed. To stay competitive in a time of rapid change, companies must bring solutions to market quickly and keep them in the market longer. But companies must achieve these goals while minimizing the risk usually associated with major innovation.

An alliance between Motorola and HCL Technologies (HCLT) helps companies meet time-to-market demands with products that can migrate smoothly to future generations. Motorola's C-Port Network Processor (NP) Family provides the bandwidth and programmability to power next-generation networks. HCLT adds value to the C-Port NP family by offering development services to customers creating packet services networking products. Drawing on HCLT's reference hardware and software designs, as well as HCLT's expert engineering services, developers can accelerate the development of flexible networking products.

Leveraging the Capabilities of Network Processors with Integrated Development Services

The C-Port NP family provides functionally rich forwarding plane intelligence to access and edge networks. With 5Gbps of bandwidth, up to 4,500 MIPs of computing power, and wire-speed performance for OC-48 class devices, the C-Port NP family offers massive processing capabilities. This power combines with complete programmability of Layers 2 through 7, software implementation of functions from physical interfaces through switching fabric support, and a comprehensive programming environment. The resulting platform allows developers to support new functionality and standards through reprogramming and to deliver new services through simple software upgrades.

Companies developing C-Port enabled systems can draw on the development resources of HCLT in order to focus on their own core competencies. HCLT, India's leading technology service provider, supports technology companies worldwide with comprehensive development outsourcing services. With expertise in ASIC, hardware design, and software development (especially embedded, networking, and telecom applications), HCLT has architected, engineered, and tested packet services products ranging from switches and routers to remote access servers and enterprise access devices. Their experience includes working with companies that are building on emerging technologies with aggressive timeto-market requirements.

FOR MORE INFORMATION ON THIS PRODUCT, GO TO: WWW.FREESCALE.COM

Meeting Customer Needs Through C-Port Family Design Expertise

HCLT's dedicated network processor competency practice helps component and equipment vendors develop complex products and solutions. Depending on a company's needs, HCLT can provide a range of solutions, from development of individual modules to conceptualization and implementation of an entire product. HCLT's services span all life cycle phases, including support.

The core of the alliance between HCLT and Motorola is reference software and hardware for the C-Port NP family. The reference software is designed for a typical packet services product comprising host processors, network processors, and accelerator processors for QoS and security. The software, architected for scalability, performance, and portability, features defined forwarding, control, server, and management planes, along with well defined interfaces between the planes.

The reference software is available for multiple hardware platforms and operating systems. Motorola customers developing various types of packet services products — including network core devices, enterprise access devices, enterprise switches and routers, ISP devices, content switches, SOHO gateways, and last mile devices — can readily leverage its comprehensive features.

Developers requiring customization of the reference designs can rely on HCLT's engineering resources. With the expertise of 4625 engineers, state-of-the art engineering labs, and robust ISO 9001 and SEI CMM level 4 processes, HCLT offers complete development solutions.

The alliance between Motorola and HCLT offers customers:

- Expertise in the C-Port network processor architecture
- Accelerated development of complex products and solutions
- Extended time-in-market through fully programmable solutions
- Negligible technology risk

For more information, go to:

- www.motorola.com/networkprocessors
- www.hcltechnologies.com or email: npinfo@hcltech.com



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SMART NETWORKS ALLIANCE

Motorola's Smart Networks Alliance is designed to enable the broadest suite of solutions for communications OEM customers leveraging the Smart Networks Platform. Members of the Smart Networks Alliance exist for almost any hardware, software or tools category, including companion chips, hardware tools, software development tools, networking software, RTOS, and emulators.

For more information, go to: www.motorola.com/smartnetworks/alliance