



QorIQ communications platforms are more than a product portfolio – they’re an intelligent and comprehensive approach established to help the embedded community move to multicore with confidence. Multicore is an exceptionally complex technology, especially within the strict power, cost, and performance requirements of the embedded space. Getting multicore right takes more than advanced silicon; it requires a deep, systems-level understanding of how cores, operating systems, and software all work together.

With QorIQ platforms, the industry now has a coherent multicore migration solution from a trusted, proven partner in Freescale. Our eight-core QorIQ P4080 processor addresses the need to dramatically scale performance without introducing complexity for developers. By offering breakthrough technology and engaging deeply with our partners, we’re ensuring that our customers have what they need to take full advantage of all that our architecture has to offer.

– **Freescale Semiconductor**

## PowerQUICC evolves into QorIQ

Having a solid migration path with significant performance and functionality improvements in each successive generation of products is essential for embedded computing systems. In a move that fulfilled this requirement, Freescale Semiconductor recently introduced QorIQ, a new brand of communications platforms designed to enable the next era of networking and promote embedded multicore adoption.

The PowerQUICC series of communications processors has long been a successful product line for Freescale, with roots going back to the 68K processors. As the next-generation evolution of the PowerQUICC processor line, Freescale’s QorIQ platforms are designed to help developers migrate to multicore with confidence.

QorIQ platforms include single-, dual-, and many-core processors based on Freescale’s e500 Power Architecture technology. The platforms start with P1 and P2 levels, which consist of five package-, pin-, and software-compatible processors that can ease the transition from single- to dual-core processing. The P3 and P4 platforms allow developers to move into the many-core arena and address more advanced processing. This is an impressive-looking roadmap with product families that promise to have something for everyone.

**Model: QorIQ**

**Published in: *Embedded Computing Design* August 2008**



**RSC# 38105**