


















Multicore Solutions from Freescale

ATCA Summit: October 27th

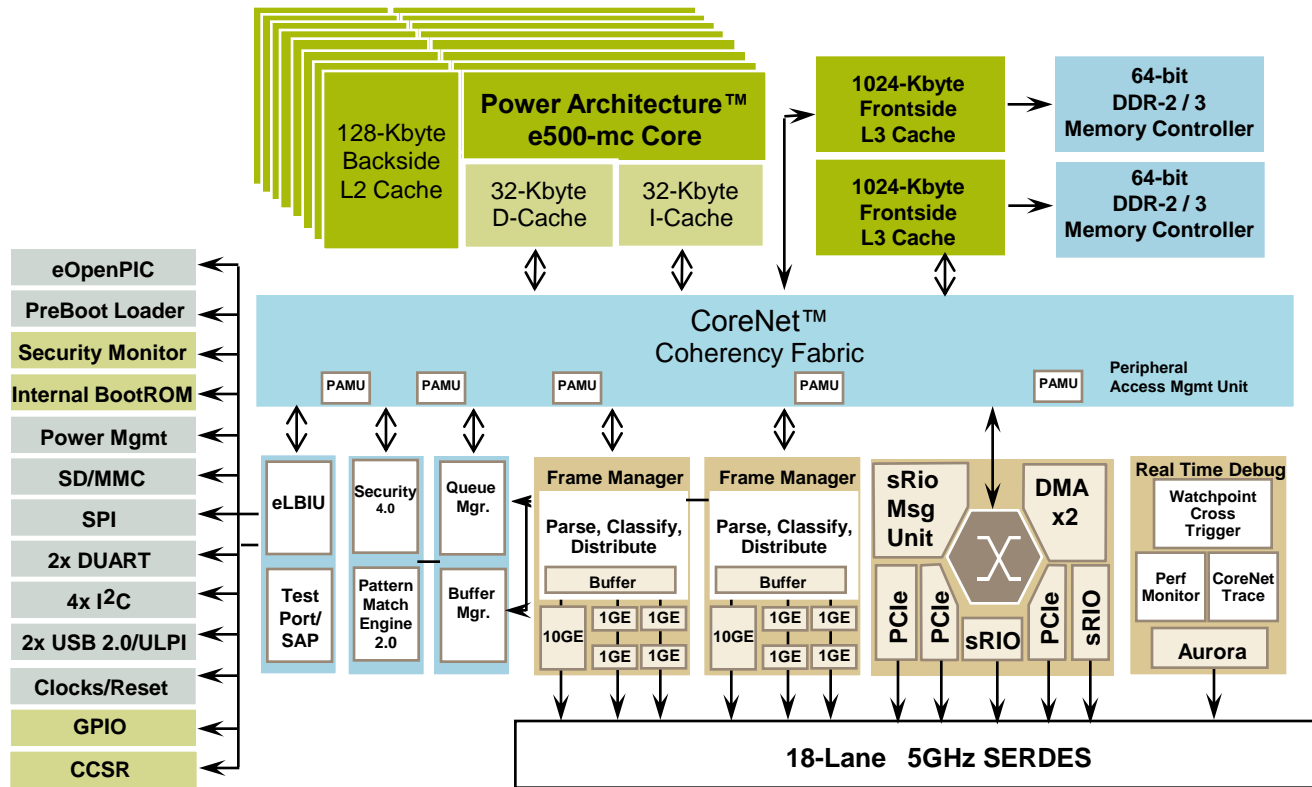
Toby Foster
Freescale Semiconductor



QorIQ™ Platform Levels

PLATFORMS / PRODUCTS	DESCRIPTION	APPLICATION EXAMPLES			
QorIQ P5 PRODUCTS: To be announced	Highest-performing embedded processors	 Service Provider Routers	 Network Admission Control	 Storage Networks	
QorIQ P4 PRODUCTS: P4080, P4040	Tap the full potential of multicore with this “many-core” platform	 Metro Carrier Edge Router	 IMS Controller	 Radio Network Control	 Serving Node Router (GSN)
QorIQ P3 PRODUCTS: To be announced	Your first step into true multicore performance	 Converged Media Gateway	 SSL, IPSec, Firewall	 Access Gateway	
QorIQ P2 PRODUCTS: P2020 P2010	Unprecedented performance per watt in this highly integrated platform	 Unified Threat Management	 VoIP Carrier-Class Media Gateway	 Wireless Media Gateway	 Base Station
QorIQ P1 PRODUCTS: P1020 P1011 P1010	A highly integrated, cost-effective, low-power platform	 Integrated Services Router	 Network Attached Storage	 Home Media Hub	

QorIQ™ P4 Series P4080



► High Efficiency Core

► Hypervisor

► Three-level cache hierarchy

► CoreNet

The Vortiqa™ Software Product Lines



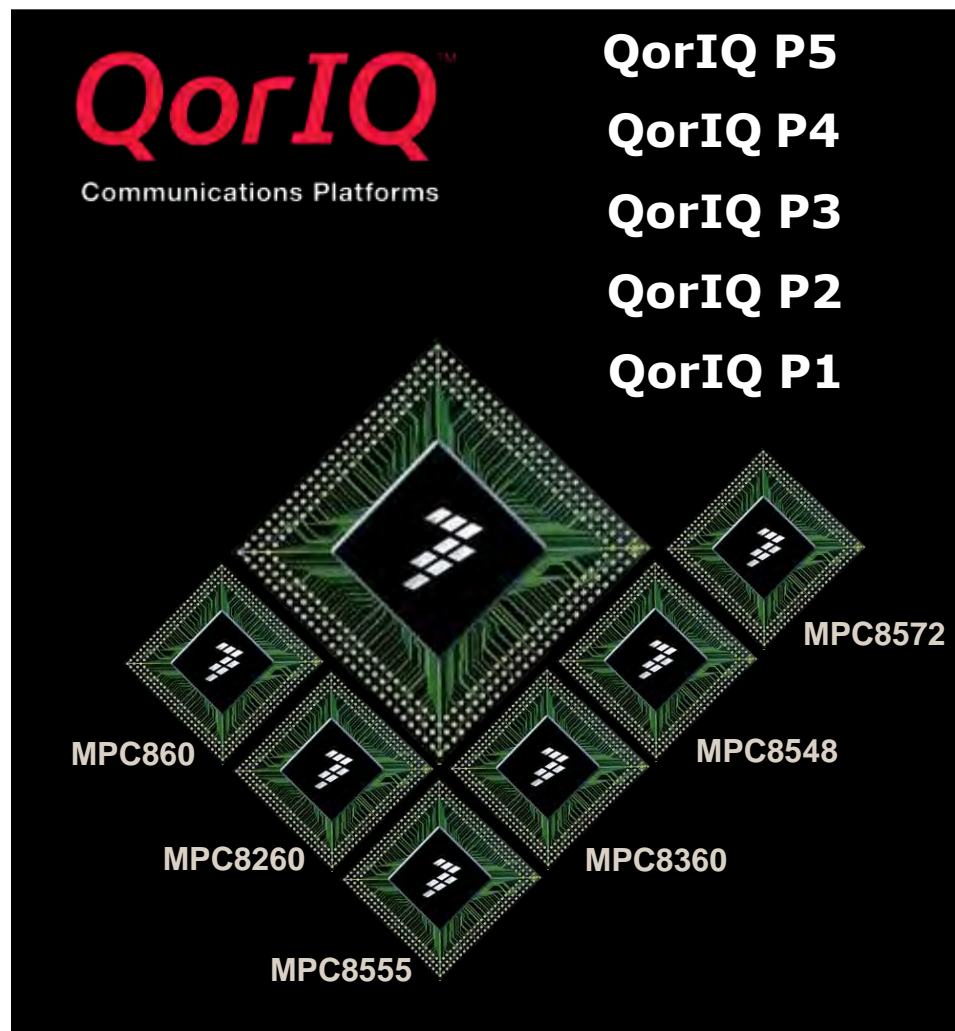
	Vortiqa™ software for service provider edge equipment	Vortiqa™ software for enterprise equipment	Vortiqa™ software for small business gateways	Vortiqa™ software for residential gateways
Market Segment	Service provider edge router, UTMs, switches, IMS	Enterprise UTM, security appliances, secured routers and switches	Multi-service business gateways	xDSL, PON, FTTH, and other CPE devices
Architecture	Data plane and control plane architecture	SMP-based architecture with clustering, Virtualization	SoC-based architecture / Virtual security appliance architecture	SoC-based architecture
Value	Performance	Scalability	Functionality	Cost-effective
Features	Network Protocols Firewall IPS VPN VSG, CME	+ AV, AS, HA, QoS, TM, CME	Network Protocols, Firewall, VPN, QoS, TM, CME	Network Protocols, Firewall, IPS, QoS, TM, CME

QorIQ™ Continues Our Embedded Leadership Tradition

► Architecture for mixed control-data

- Highly efficient cores
- Three-level cache hierarchy
- Hypervisor
- CoreNet

► With the software to harness it



The image displays the QorIQ Communications Platforms logo in red and white. Below the logo is a diamond-shaped arrangement of seven microprocessors, each with a white Freescale logo on a black square. The processors are labeled with their model numbers: MPC860, MPC8260, MPC8555, MPC8360, MPC8548, MPC8572, and MPC8555. To the right of the diamond, the QorIQ P-series is listed vertically: QorIQ P5, QorIQ P4, QorIQ P3, QorIQ P2, and QorIQ P1.

