

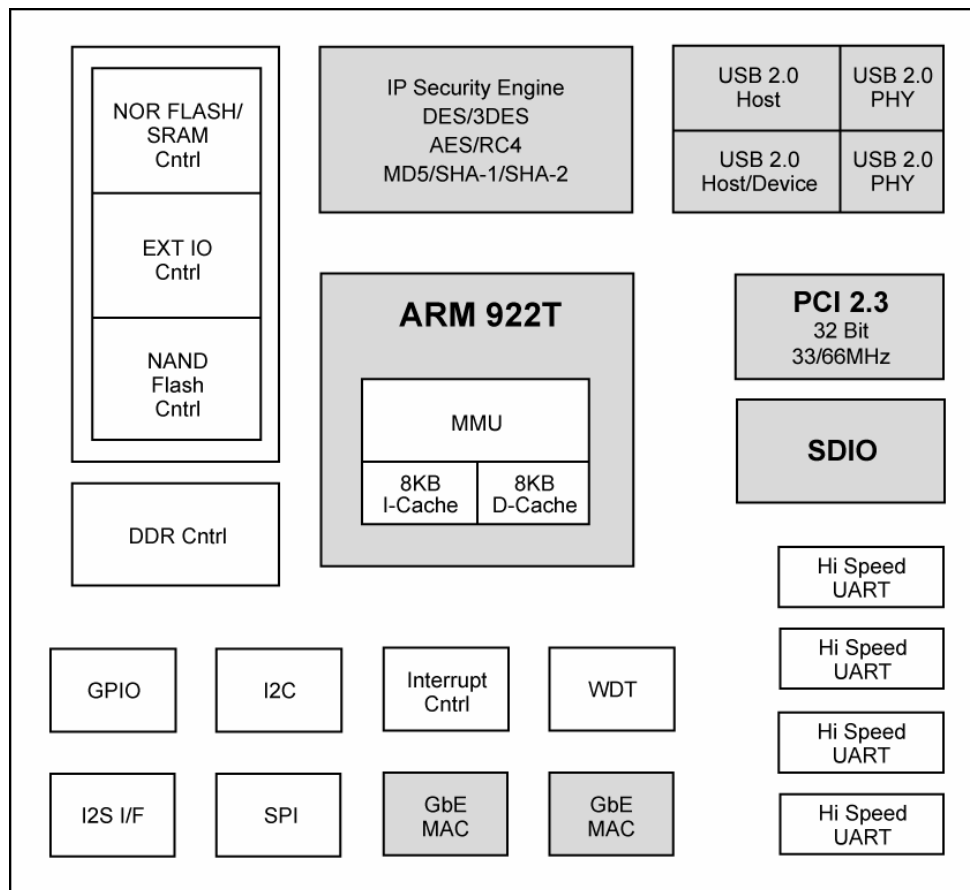
Integrated Gigabit-Networking and Communications Controller with IP Security Engine

Description

The KSZ9692PB is a highly integrated System-on-Chip (SoC) containing an ARM 922T 32-bit processor, an IP security engine, and a rich set of peripherals to address the cost-sensitive, high-performance needs of a wide variety of high bandwidth networking and communications applications.

All datasheets and support documentation can be found on Micrel's web site at: www.micrel.com.

Block Diagram



Features	Benefits
Dual USB 2.0 ports (up to 480Mbps) with PHY integrated	Flexible configurations (Host/Host and Host/Device) provide ultra fast data transfers for a wide range of USB devices (e.g., data storage device, printer, and etc.)
Hardware accelerated security engine supporting most commonly used data encryption and hashing algorithms	The hardware engine provides maximum integrity for IPsec, SSL, TLS and other implementation, while offloading the system CPU for optimized performance.
Dual Gigabit Ethernet MACs (RGMII/MII)	Integrated WAN and LAN interfaces support a variety of network implementations at gigabit data rate.
33/66MHz PCI 2.3 interface supporting three PCI masters	High-performance PCI interface enables integration of WiFi, multimedia and storage applications, and reduces system BOM and board complexity.
Standard compliant SD/SDIO host controller	The SD/SDIO interface provides connectivity for small form-factor, high density memory cards and I/O devices.
4 high-speed (up to 5Mbps) UART ports	The UART interface supports console display, Bluetooth or GSM/CDMA2000 applications.

Applications

- Enhanced residential gateways
- High-end printer servers
- Voice-over-Internet Protocol (VoIP) systems
- IP-based multimedia systems
- Wireless Access Points or Mesh Nodes
- USB device servers
- Industrial Control
- Video surveillance systems
- SMB/SME Network Security Applications, including VPN Routers

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