

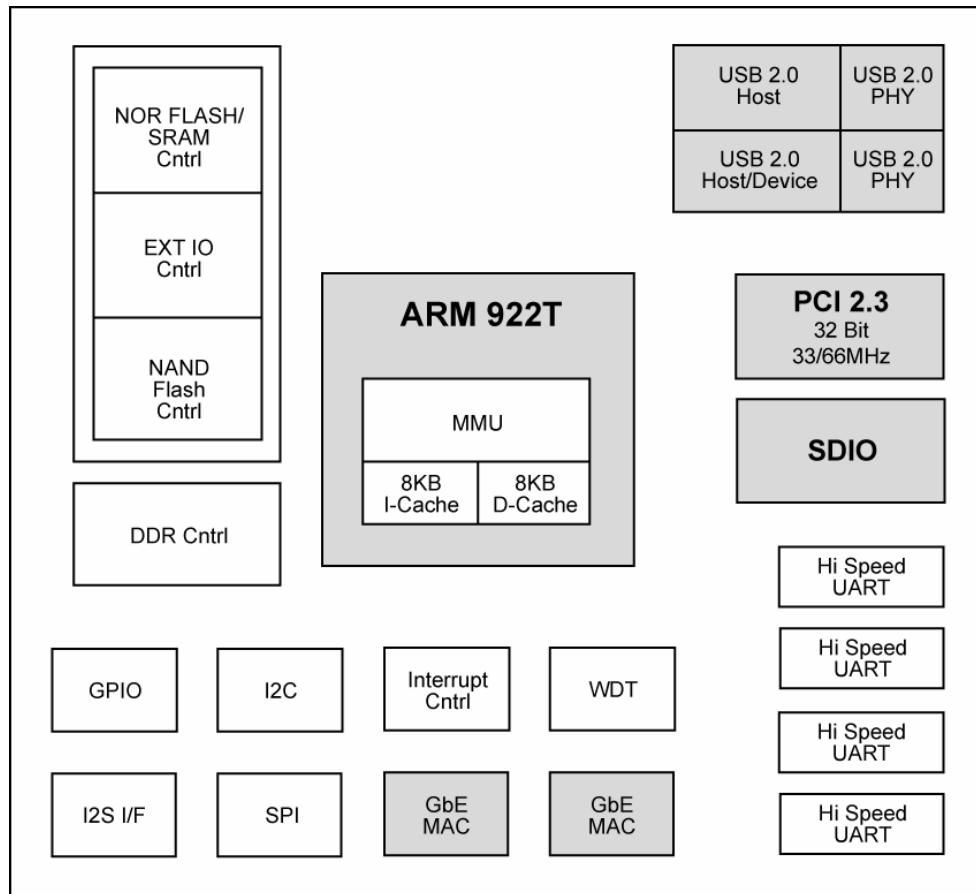
### Integrated Gigabit Networking and Communications Controller

#### Description

The KSZ9692MPB/KSZ9692XPB is a highly integrated System-on-Chip (SoC) containing an ARM 922T 32-bit processor 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](http://www.micrel.com).

#### Block Diagram



Note: SDIO block for KSZ9692MPB only.

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.)
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 (for KSZ9692MPB)	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.
External I/O interface with programmable data width (8bits/16bits) and 20 GPIOs	These interfaces can be used to control key pads, LEDs and simple LCD displays. The external I/O interface can also be used to interface with a DSP to support VoIP applications.

## Applications

- Enhanced residential gateways
- High-end printer servers
- USB device servers
- IP-based multimedia systems
- Voice-over-Internet Protocol (VoIP) systems
- Set-top box
- Industrial control
- Wireless Access Points or Mesh Nodes

## Corporate Sales Offices

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