

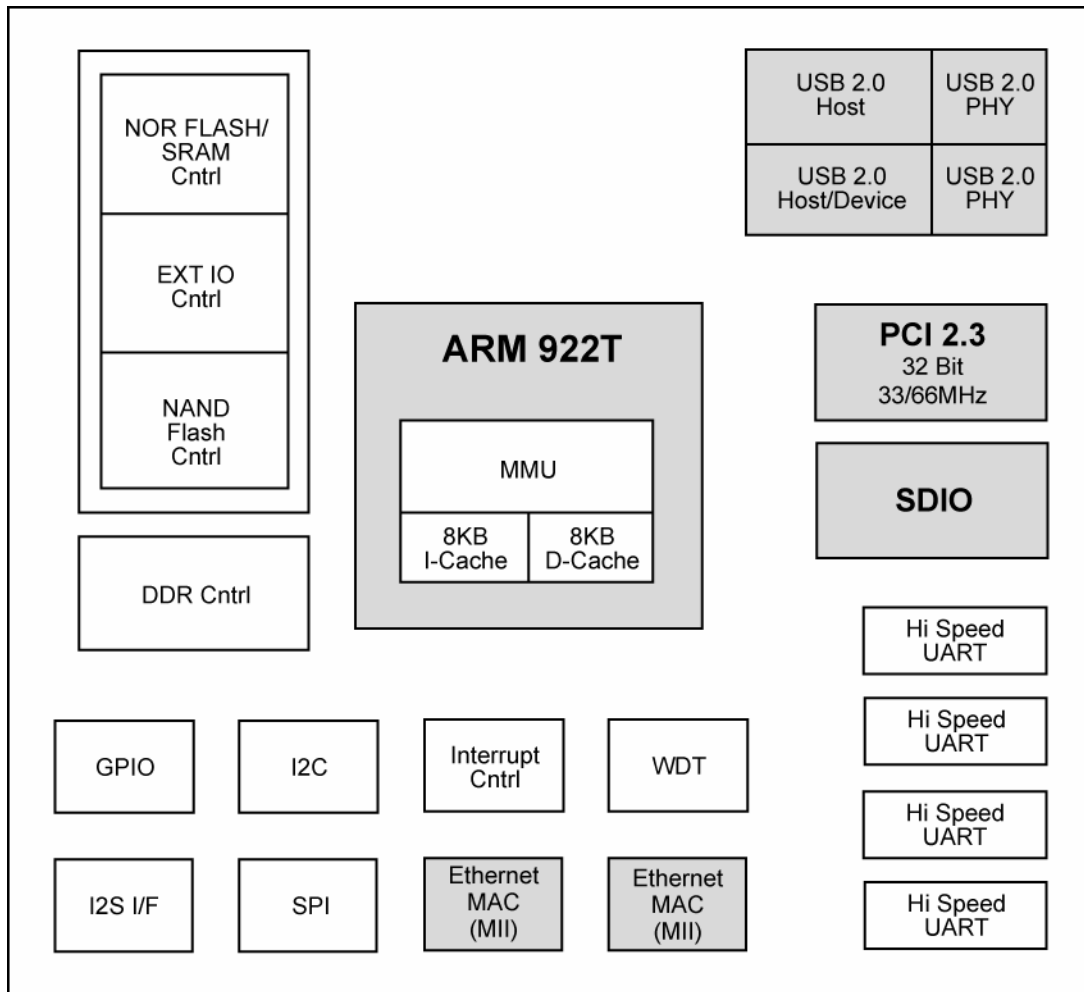
Integrated Fast Ethernet and Communications Controller

Description

The KSZ8692MPB/KSZ8692XPB 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 networking and communications applications.

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

Block Diagram



Note: SDIO block for KSZ8692MPB 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 10/100Mbps Ethernet MACs (MII)	Integrated WAN and LAN interfaces support a variety of network implementations at 10/100Mbps data rates.
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 router/switches
- Printer servers
- USB device servers
- Voice-over-Internet Protocol (VoIP) phones
- Industrial control
- 802.11 a/b/g Wireless Access Points or Mesh Nodes

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