Product Brief



ADM5120P

System on Chip (SoC) Network Processor

The ADM5120P is a high performance, integrated and highly flexible SOC (System-On-Chip) network processor.

Internally, the ADM5120P consists of a high performance (227 MIPS) embedded MIPS CPU, an embedded switch engine, a five port 10/100M PHY, an embedded USB host and interfaces for UART, SDRAM and Flash. The ADM5120P enables the sharing of IP-based broadband services throughout the home and office using wired and wireless computers, entertainment equipment, printers and other intelligent devices.

It's applications include a SOHO/SME Gateway, NAT Router, USB Print Server and Single / Multi band WLAN Access Point . The ADM5120P can be combined with a number of Infineon's other products to add functionality to VoIP and ADSL among other technologies.

Applications

- Soho and SME Gateways
- NAT Routers
- USB Print Servers
- WLAN Access Points

Features

- 175 MHz/227 MIPS 4Kc CPU with an embedded cache, 8K-byte I-cache and 8K D-cache
- An embedded memory management unit (MMU) 32-entry TLB (Translation Lookaside Buffer), with 16 organized entry pairs
- IEEE 802.3 Fast Ethernet 5 auto-MDIX (auto-crossover) twisted paired LAN interfaces with embedded 10/100M PHY and 1 MII interface

- Flexible WAN port selection and embedded switch engine and Data-buffer/Addresslook-up table
- Look-up table (read/write-able)
- MAC layer security and MAC clone
- MAC filtering, Bandwidth control and a Class of Services (CoS) with two priority levels
- Shared dynamic data buffer management with embedded SSRAM
- Port grouping VLAN (overlap-able)
- Supports store & forward

Software Features

- Linux OS support
- IEEE 802.3 Ethernet Driver and RS232
 Driver for Console User Interface
- DHCP Server/Client, PPP over Ethernet (PPPoE), Network Address Translation (NAT) for IP Address Mapping/Sharing/Security
- DNS Proxy, Simple Network Time Protocol (SNTP) and Firewall

Physical Characteristics

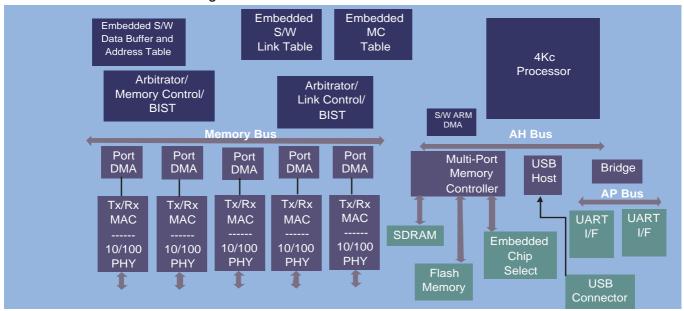
- CSM CMOS, 0.18 1P5M
- 208-pin LQFP package
- 1.8/3.3 V Variable Voltage

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Wireline Communications



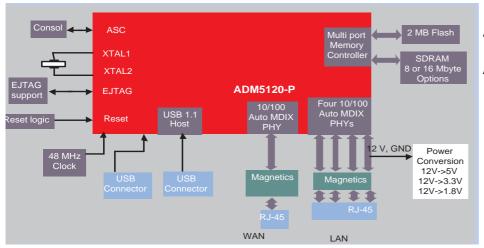
ADM5120P Block Diagram



Product Summary

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Product	Sales Code	Description	Package
ADM5120P	ADM5120P	Network Controller	LQFP 208



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Application Example

How to reach us:

http://www.infineon.com

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