

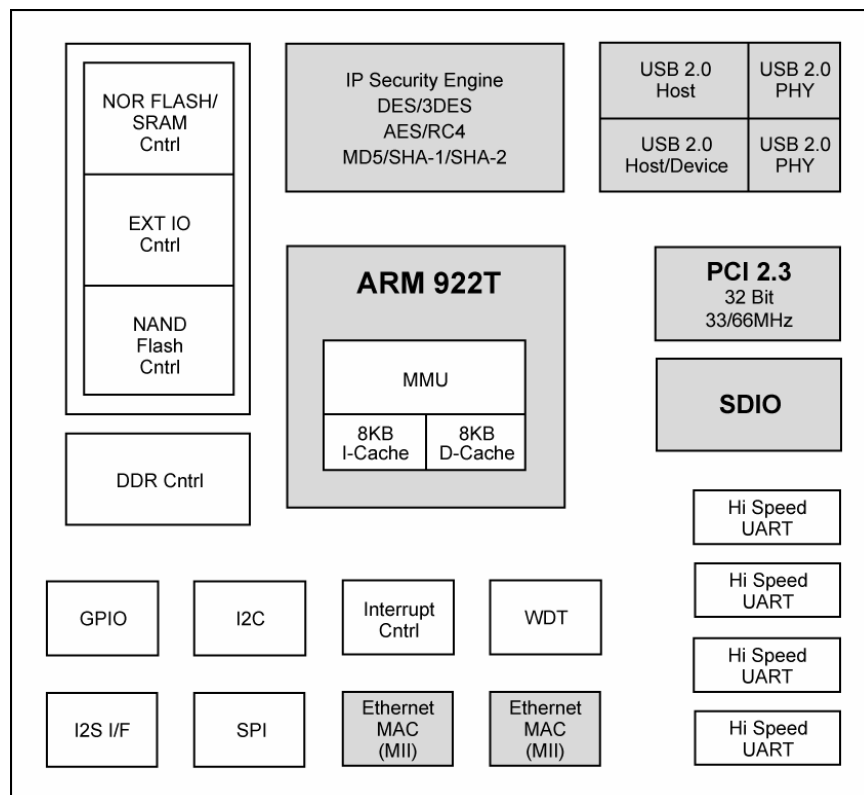
Integrated Fast Ethernet and Communications Controller with IP Security Engine

Description

The KSZ8692PB 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 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 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	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 routers/switches
- Printer servers
- Voice-over-Internet Protocol (VoIP) phones
- 802.11 a/b/g Wireless Access Points or Mesh Nodes
- USB device servers
- Industrial control
- SMB/SME Network Security Applications, including VPN Routers

Corporate Sales Offices

Location	Address	Telephone	Fax	
Corporate HQ	2180 Fortune Dr.	San Jose, CA 95131 USA	(408) 944-0800	(408) 474-1000
Western USA	2180 Fortune Dr.	San Jose, CA 95131 USA	(408) 944-0800	(408) 474-1000
Central USA	2425 N. Central Expressway, Suite 351	Richardson, TX 57080 USA	(972) 393-2533	(408) 474-1210
Eastern USA	93 Branch St.	Medford, NJ 08055 USA	(609) 654-0078	(609) 654-0989
Latin America	2425 N. Central Expressway, Suite 351	Richardson, TX 57080 USA	(972) 393-2533	(408) 474-1210
China	Rm 601, Bldg., Int'l Chamber of Commerce Mansion, Fuhua Rd., Futian District	Shenzhen, P.R. China	+86-755-8302-7618	+86-755-8302-7637
Japan	Queen's Tower A 14F, 2-3-1, Minato Mirai, Nishi-Ku, Yokohama-Shi	Kanagawa 220-6014, Japan	+81-45-224-6616	+81-45-224-6716
Korea	8F AnnJay Tower Bldg., 718-2, Yeoksam-Dong	Kangnam-Ku, Seoul 135-080 Korea	82 (2) 538-2380	82 (2) 538-2381
Singapore/India	300 Beach Rd., #10-07 Concourse	Singapore 199555	+65-6291-1318	+65-6291-1332
Taiwan	4F, No. 43 Lane 188, Rueiguang Rd., Neihu District	Taipei, Taiwan, R.O.C.	+866 (2) 8751-0600	+866 (2) 8751-0746
France/Southern Europe	Les Laurentides Immeuble Ontario, 3 avenue du Quebec	91140 Villebon sur Yvette, France	+33 (0) 1.6092.4190	+33 (0) 1.6092.4189
UK/EMEA	1 st Floor, 3 Lockside Place, Mill Lane, Newbury, Berks	United Kingdom RG14 5QS	+44 (1635) 524455	+44 (1635) 524466
Sweden/Nordic	Lundagatan 11 6tr	SE-171 63 Solna Sweden	+46 (8) 470-5950	+46 (8) 470-5950

