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Infineon Technologies
ADM6996FCX-AC-T-1

For any questions, you can email us directly:
sales@integrated-circuit.com

Product Brief

Samurai

ADM6996M/I/LC/FC and ADM6995LCL2 Ethernet Switch Controllers

Samurai is a high performance, low cost, integrated (Controller, PHY and Memory) six-port Ethernet switch controller with all ports supporting 10/100 Mb/s Full/Half duplex operation.

Advanced features such as Layer 4 QoS, 802.1p(QoS.), 802.1q(VLAN), bandwidth control and switch management functions make the Samurai one of the most innovative and economical low-port switches available in the market.

Some of the Samurai's benefits include low temperature and a small footprint for complete design flexibility, advanced network monitoring functions using the Port Mirror feature, Harware and Software IGMP for VOD and excellent L4 Quality of Service (QoS) performance for Multimedia applications.

The Samurai was designed using a New Design Application (NDA) making it one of the most economical solutions available. With five diffierent packaging options: Samurai 6M, 6I, 6LC , 6FC & 5LC and pin compatibility with the legacy ADM6996/5L/F series, the Samurai offers smooth migration aswell as new design flexibility for Infineon's system vendors.

Applications

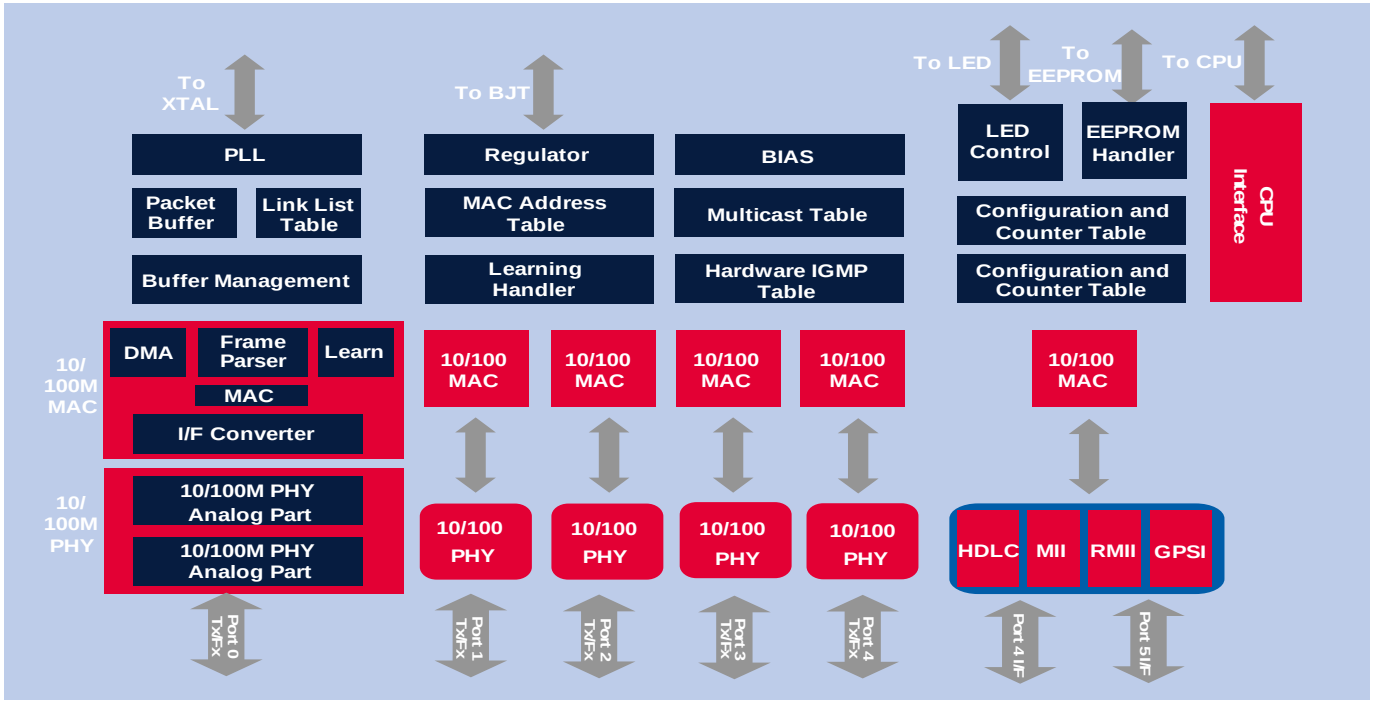
- ADSL Routers
- Wireless/Wired Routers
- Home Gateways
- Cable Modems
- Web DVDs

Product Features

- 10/100 Mbps MDIX TX/FX transceivers with five/six-port 10/100M Ethernet L2 switch controller
- Hardware and Software IGMP, MAC Table Access and Port Mirror functions
- L4 Ethernet Q.O.S.¡Security Functions: 802.1x, MAC Address and "Accept/Reject" address control
- dScalable Ingress/Egress Bandwidth Control- 64K~100M with 64K/Scale.
- Port Mirror, Spanning Tree, Special Tag
- PPPoE Identification- Receive PPPoE packet only
- 16 VLANs. Learn 12 Bits VLAN ID.
- Supports MDC/MDIO applications
- 128-pin LQFP package
- New features only available in the ADM6996M/I packages:
  - IPv4/v6 DiffServ priority
  - TAG PRI Replacement- IGMP snooping
  - Spanning Tree
  - 802.1x, Port Mirroring and special Tag
  - PPPoE and SNAP/ARP/RARP
- New features unavailable in the ADM6996L/F and ADM6995L legacy products:
  - 2K, 4-layer hashing, accessible address table
  - TCP/UDP destination port MAC Address DA priorities
  - Maximum packet length support: 1784bytes
  - RMII MAC interface
  - Low power (1.0W)
  - Advanced filter support such as TCP/UDP Destination Port, IP Protocol ID and Ethernet Type
  - Multicast Broadcast Storm protection
  - 16 and 32bit SDC/SDIOADSL Routers

Product Brief

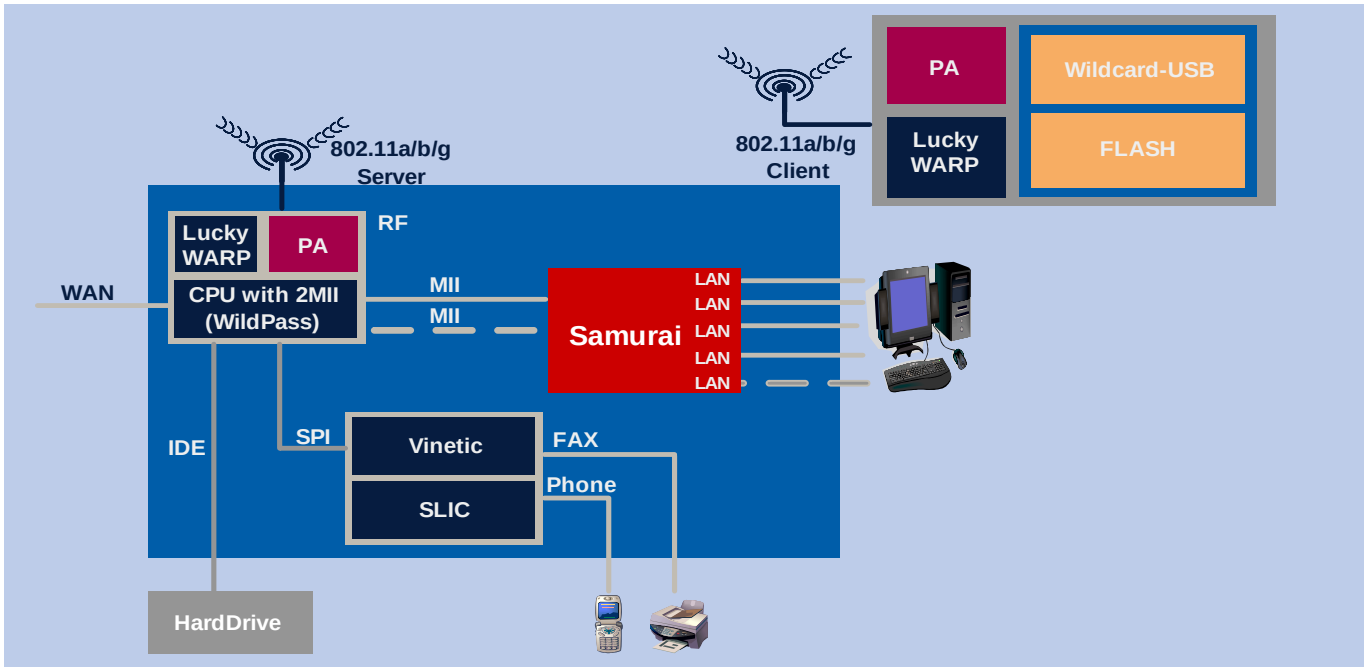
Samurai Block Diagram



Samurai Product Summary

Product	Sales Code	Description	Package
Samurai	ADM6996LC/FC/I/M & ADM6995LC	L2 Ethernet Switch Controller	128-LQFP

Samurai Application Example



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