



**THE DATASHEET OF
ADM6996LCX-AC-T-1**



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, Hardware 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 different packaging options: Samurai 6M, 6I, 6LC, 6FC & 5LC and pin compatibility with the legacy ADM6996/5L/F series, the Samurai offers smooth migration as well 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

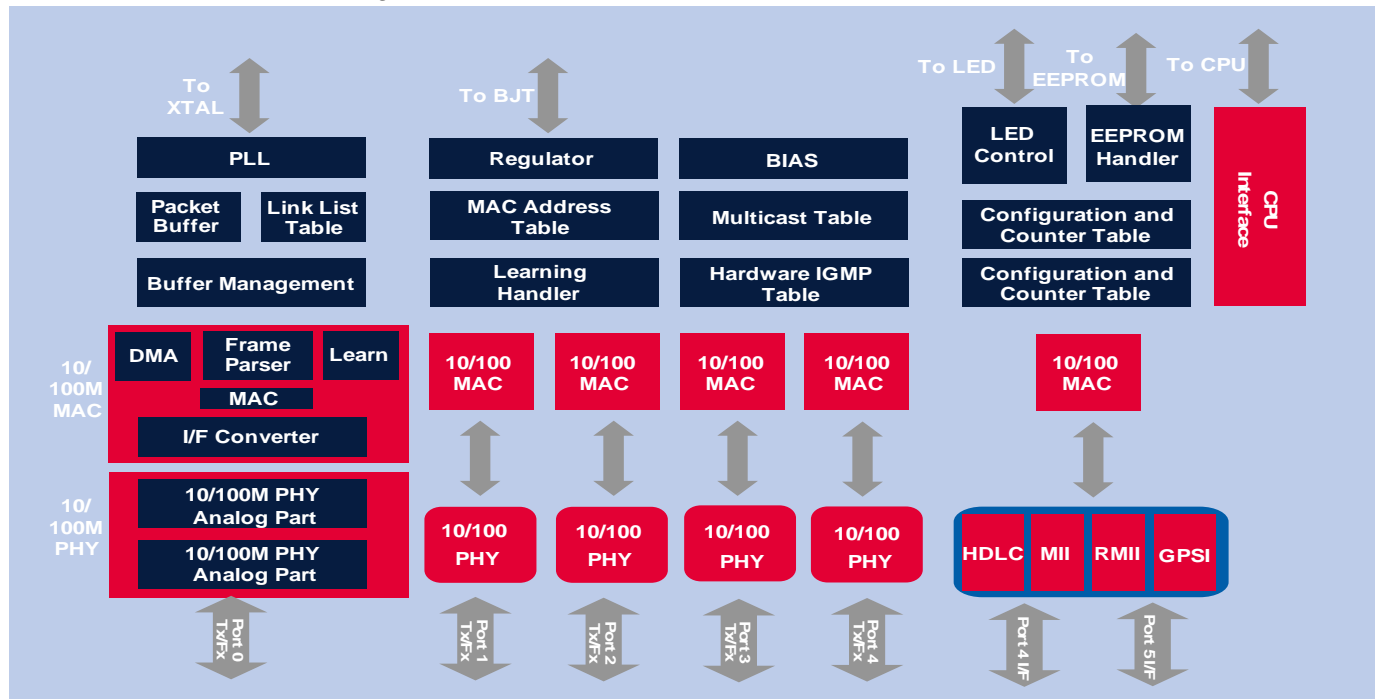
www.infineon.com/cpe

Communications Solutions



Never stop thinking

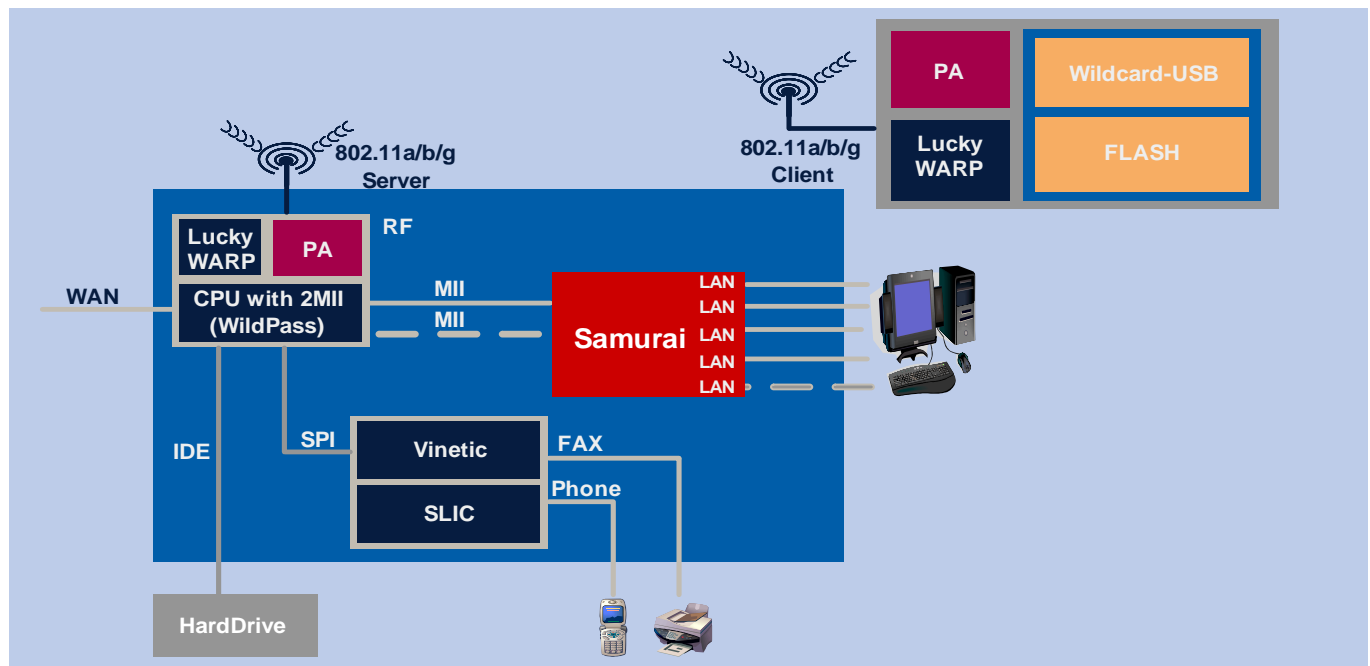
Samurai Block Diagram



Samurai Product Summary

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

Samurai Application Example



How to reach us:

<http://www.infineon.com>

Published by
Infineon Technologies AG
St.-Martin-Strasse 53
81669 München

© Infineon Technologies AG 2007.
All Rights Reserved.

Template: pb_w_tmplt.fm/3

Attention please!

The information herein is given to describe certain components and shall not be considered as a guarantee of characteristics. Terms of delivery and rights to technical change reserved.

We hereby disclaim any and all warranties, including but not limited to warranties of non-infringement, regarding circuits, descriptions and charts stated herein.

Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office.

Warnings

Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies Office.

Infineon Technologies Components may only be used in life-support devices or systems with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.

Ordering No. B000-H0000-X-X-7600
Printed in Germany
PS 10053.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View ADM6996LCX-AC-T-1 on WIN SOURCE](#)
- ⊖ [Infineon Technologies Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management