Hifn 7951 Security Processor

Compression

- LZS
- MPPC

Encryption

- DES
- Triple-DES
- ARC4*

Authentication

- SHA-1
- MD5

Public Key

- RSA, DH
- Hardware random number generator

Broadband Security Bargain Now with PCI Bus

New Value-Priced Chip Powers High-Speed Small Office VPNs

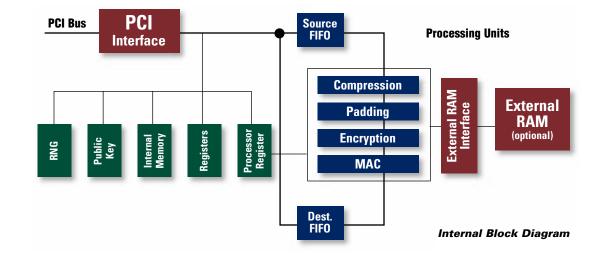
DSL, cable modems and other broadband applications demand hardware security acceleration—as much as 50-100 MIPS for IPSec processing. Now you can design in the strongest virtual private network security without sacrificing performance or spending big bucks.

Saves Money, Time and Board Space

At less than \$25,* our new 7951 security processor fits within your budget and on your motherboard. Plus, the feature-packed 7951's PCI Bus interface reduces chip count and design time.

Soups up 3-DES and Public Key Processing

The 7951 crunches through compression, encryption and authentication algorithms at speeds that leave general-purpose CPUs in the dust. And, you get a true random number generator and Public Key acceleration, all on the same affordable all-purpose chip.





Hifn **7951**

Supports Layer 3 and Layer 2 protocols.

IPSec (Layer 3)

RFC 2401 – IP Security Architecture

RFC 2393 – IP Payload Compression

RFC 2406 - IP Encryption

RFC 2402 – IP Authentication

RFC 2395 – IP Compression/LZS

RFC 2405 – DES-CBC Cipher Algorithm

RFC 2403 - HMAC-MD5

RFC 2404 - HMAC-SHA-1

PPP (Layer 2)

RFC 1962 – Compression Control Protocol

RFC 1967 – PPP LZS-DCP Compression

RFC 1974 – PPP LZS Compression

RFC 2118 – Microsoft Point-to-Point Compression (MPPC)



750 University Avenue Los Gatos, CA 95032 408.399.3500 tel 408.399.3501 fax info@hifn.com www.hifn.com

Features

- Single chip multi-algorithm acceleration (LZS, 3-DES, SHA, Public Key & more)
- On-board IKE processor (2048-bit key lengths) and true random number generator
- Concurrent symmetric and Public Key processing
- Compression (LZS and MPPC)
- 32 Mbps processing
- Multi-protocol support: IPSec, IPPCP (IPCOMP), PPTP, L2TP, PPP and IKE
- PCI Bus interface

Benefits

- Off-loads compute-intensive work from CPU
- Delivers top security protection and breaks performance bottlenecks
- Non-stop performance
- · Improves speed
- VPN at full broadband speed
- Interoperates with all major vendor's equipment
- Industry standard Bus

Tools

- · Software API for faster time to market
- PCI evaluation board

Broadband Performance Requirements

WAN Link	WAN Speed (Mbps)	7951 Throughput (Mbps)
ISDN	.128	32
IDSL	.128	32
T1	1.5	32
E1	2.0	32
ADSL	8.0	32

Hifn Product Selection Guide

Encryption Products	Hifn Products	Delivered Mode	PCI	LZS	MPPC	DES 3-DES ARC4*	SHA MD5	RSA DSA
	6500	Silicon						
l bo	7711	Silicon						
- P	7751	Silicon						
ptio	7811	Silicon						
C.	7851	Silicon						
ū	7901	Silicon						
	7951	Silicon						
	IPSECure**	Software						

^{**}IPSECure does not include ARC4.*

Compression Products	Hifn Products	Delivered Mode	PCI	LZS	MPPC	ALDC
	9600	Silicon				
	9602	Silicon				
	9603	Silicon				
	9610	Silicon				
	9710	Silicon				
	9711	Silicon				
ŭ	9751	Silicon				
	LZS-221	Software				
	MPPC	Software				

Ordering Information

Part Number	Package	
7951 PT6	144-pin TQFP	

