Hifn 7711 Encryption Processor

Compression

- LZS
- MPPC

Encryption

- DES
- Triple-DES
- ARC4*

Authentication

- SHA-1
- MD5

Interoperate with Everything Compress, Encrypt and Authenticate IPSec Data Packets



Supports More Algorithms and Protocols than any Other Chip

Only Hifn™ security processors offer designers on-board ARC4,* LZS and MPPC. Plus, you get DES, 3-DES, SHA and MD5 encryption and authentication algorithms in our 7000 family of products.

IP Compression is a Security Essential

Data compression doubles bandwidth and reduces performance-killing packet fragmentation. The 7711 supports compression within Layer 3 IPSec or Layer 2 PPP. To add built-in PCI support, choose the 7751. Either way, you'll get single-pass compression, encryption and authentication, dramatically reducing demands on the CPU and system bus.

Build Fast VPNs Fast

You can program the 7711 to support Layer 3 IPSec and protocols such as Layer 2 PPP compression. The 7711 is perfectly complemented by IPSECure software and our 6500 Public Key Processor. IPSECure is Hifn's software toolkit for VPN

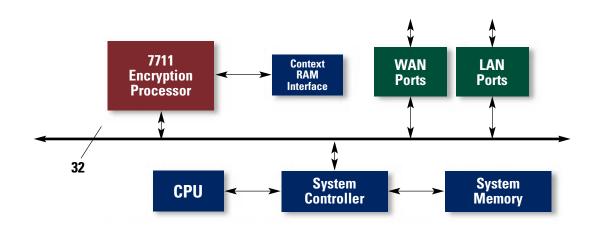
developers who need to implement IPSec and IKE in a hurry. Add our blazing fast 6500 Public Key Processor for a truly comprehensive VPN construction kit.

Support Up to 12 T1 Lines With Your VPN Gateway Application

The robust performance of 7711 lets you support up to 12 full duplex T1 lines. Plus, you can maintain separate compression histories and encryption keys for each concurrent session. So you can support both Layer 2 and Layer 3 sessions simultaneously. High-performance compression, encryption and authentication: That's the 7711.

Complete Documentation Suite

The 7711 is ideal for embedded systems, with its dual DMA slave interface and easy programming. For ease of programming, you get a bound Reference Kit, which includes a complete suite of documentation, pocket guide, and reference software. Optionally, you can also buy a Hardware Reference Board.





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)

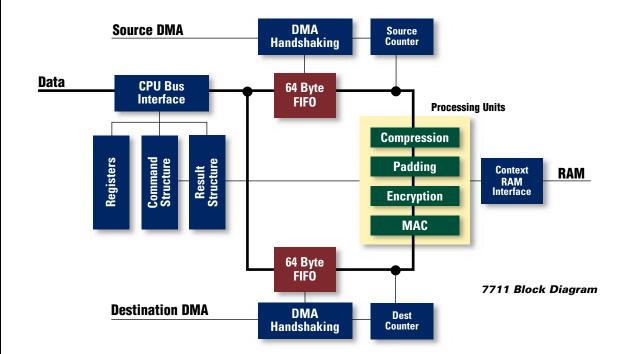


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Features

- 32 bit, 33MHz DMA slave interface
- DES, Triple-DES, ARC4,* LZS, MPPC, SHA-1, and MD5 algorithms
- 80 Mbps peak 3-DES performance

- Pipelined operations without CPU intervention
- Supports more than 2,000 sessions
- 3.3V operation with 5V tolerant I/O's



Hifn Product Selection Guide DES **Delivered** Hifn 3-DES SHA MD5 RSA DSA **MPPC Products** Mode **PCI** LZS ARC4 **Encryption Products** 6500 **Silicon** 7711 **Silicon** 7751 **Silicon** 7811 **Silicon** 7851 **Silicon** 7901 **Silicon** 7951 Silicon IPSECure** Software

**IPSECure	dnes not	include	ARC4*

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

Ordering Information

Part Number	Package		
7711 PT6	144-pin TQFP		
7711 MREF	Reference Design kit		

Documentation:

Network Security Data Book 7711 Reference Kit Literature

