

Hardened VPN Based on IXP425*

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ABSTRACT

The bottleneck of VPN gateway lies on the cryptographic operation consumes massive CPU resources, which directly causes the performance dropping of VPN gateway. According to the conclusion, we propose the implementation of VPN gateway based on Intel's Network Processor, its internal network processing engines provide integrated hardware acceleration for security applications which can support bulk encryption decryption rates up to 70Mbps for DES, 3DES algorithms, thus satisfies the wire speed data processing demand.

Key words: VPN IXP425 encryption

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