

## Cisco Secure PIX Firewall 506

CISCO SYSTEMS DELIVERS ENTERPRISE-CLASS SECURITY AND VPN CAPABILITIES TO SMALL CORPORATE OUTPOSTS WITH THE CISCO SECURE PIX FIREWALL 506.

The Cisco Secure PIX™ Firewall 506 is part of the world-leading Cisco Secure PIX Firewall series, providing today's networking customers with unmatched security, reliability, and performance. It delivers full firewall protection, as well as IP Security (IPsec) Virtual Private Network (VPN) capabilities which allows you to rigorously protect your internal network from the outside world.

The Cisco Secure PIX Firewall 506 is designed for companies that are leveraging the cost advantages of the Internet and allowing employees to work remotely. It specifically targets organizations where engineers, developers and other so-called "power users" are maintaining multiple computers that connect back into the corporate network through Internet Service Providers (ISPs) or VPNs.

### Strongest Security

The growth of the Internet has resulted in increased security risks to corporate, government, and private networks. Existing solutions such as proxy-based firewalls that run at the application level have many limitations, including slow performance, the need for costly general-purpose platforms, and the security risks inherent in using an open system such as UNIX.

The Cisco Secure PIX Firewall offers an unprecedented level of security protection. At the heart is a protection scheme based on Adaptive Security Algorithm (ASA), which offers stateful connection-oriented firewalling. Stateful security is less complex and more robust than packet filtering. It also offers higher performance and is more scalable than application-level proxy firewalls. ASA tracks the source and destination address, Transmission Control Protocol (TCP) sequence numbers, port numbers, and additional TCP flags of each packet. Access is permitted

through the Cisco Secure PIX Firewall series only if an appropriate connection exists to validate passage. This gives organizations transparent access for internal and authorized external users, while protecting internal networks from unauthorized access.



The real-time embedded system also enhances the security of the Cisco Secure PIX Firewall series. Although UNIX servers are ideal open-development platforms with widely available source codes, such general-purpose operating systems provide less-than-optimum performance and security. The dedicated Cisco Secure PIX Firewall series is designed specifically for secure,

high-performance protection.

### Secure VPN Interoperability with IPsec

Firewalls have traditionally provided perimeter security by maintaining stateful control of all connections between connected network segments. Today, more and more customers are looking to the firewall for VPN services in addition to access control. With a VPN, remote users or distributed branches can securely access corporate networks at low cost. Using the Internet for access dramatically reduces the telecommunications costs associated with previous leased-line or other dedicated networks. Companies also no longer need to maintain large modem banks and access servers—a large capital outlay and administrative headache—to handle remote dial-in users. With just a local phone call to an ISP, users can securely access private corporate intranets over the Internet.

The PIX 506 enables secure private communications over the Internet or any IP network. It integrates key features of VPNs—tunneling, data encryption, security, and firewalling—to provide a secure, scalable platform to better and more cost-effectively accommodate remote-access, remote-office, and extranet connectivity using public data services. The 506

can connect with up to four VPN peers simultaneously, and provides users with a complete implementation of IPsec standards. IPsec ensures confidentiality, integrity, and authenticity. For secure data encryption, Cisco's implementation of IPsec supports both the 56-bit Data Encryption Standard (DES) and 168-bit Triple DES algorithms. Delivering up to 6 Mbps of 3DES performance, the PIX 506 comfortably integrates into any broadband environment.

### Key Features and Benefits

- *Part of a Cisco End-to-End Solution*—Allows businesses to extend a cost-effective, seamless network infrastructure to the branch office.
- *Lowest Cost of Ownership*—Simple to install and configure, resulting in little network downtime. In addition, permits transparent support of Internet multimedia applications, eliminating the need to physically modify and reconfigure each client workstation or PC.
- *Non-UNIX, Secure, Real-Time, Embedded System*—Eliminates the risks associated with a general-purpose operating system and deliver outstanding performance.
- *Standards-Based Virtual Private Network*—Enables administrators to reduce the costs of connecting mobile users and remote sites to the corporate network over the Internet or other public IP networks.
- *Adaptive Security Algorithm*—Provides stateful security for all TCP/IP sessions to protect sensitive, private resources.
- *Prevention of Denial-of-Service Attacks*—Protects the firewall, as well as the servers and clients behind it from disruptive or damaging hackers.
- *Broad Range of Supported Applications*—Reduces the impact of a firewall on network users.
- *Java Applet Filter*—Enables firewall to stop potentially dangerous Java applications on a per-client or per-IP address basis.
- *Multimedia Application Support*—Reduces administrative time and cost required to support these protocol. Requires no special client configurations.
- *Easy Setup*—Allows a general security policy to be implemented in as little as six commands.
- *Compact Design*—Allows easier deployment in desktop or smaller office settings.

### Performance Summary

- Cleartext throughput 8 Mbps
- 56-bit DES throughput 6 Mbps
- 168-bit 3DES throughput 6 Mbps
- Simultaneous VPN Peers up to 4

### Technical Specifications

- Processor: 200 MHz Intel Pentium MMX
- Random Access Memory: 32 MB
- Flash Memory: 8 MB
- Interfaces: Dual integrated 10Base-T ports, RJ45
- Console Port: RJ-45
- Device Update Process: Trivial File Transfer Protocol (TFTP) only

### Physical Dimensions

- Height: 1.72 in.
- Width: 8.5 in.
- Depth: 11.8 in.
- Weight: 6 lb.

### Power Requirements

- Autoswitching: 100-240 VAC
- Frequency: 50-60 Hz
- Current: 1.5-0.75 amps

### Operating Environment

- Operating Temperature: -5 to +45°C (-25 to 113°F)
- Nonoperational Temperature: -25 to +70°C
- Operational Humidity: 95% relative humidity (RH), -45°C
- Operational Altitude: 3000m (9843 feet), 25°C (77°F)
- Nonoperational Altitude: 4570m (15,000 feet), 25°C (77°F)
- Operational Shock: 1.88 m/sec (74 in./sec) 1/2 sine input
- Nonoperational Shock: 60G 11 ms 1/2 sine input
- Operational Vibration: 0.41 Grms<sup>2</sup> (5-500 Hz) random input
- Nonoperational Vibration: 0.41 Grms<sup>2</sup> (5-500 Hz) random input
- Heat Dissipation (worst case with full power usage): 102.4 BTU/hr (based in 30 watt PS)
- EMI: CE, VCCI class II, FCC, BCIQ, Austel
- Safety Agencies: UL, C-UL, TUV, IEC 950
- UL-1950 Standard: 3rd edition
- TUV EN 60950: 2nd edition, Am.1-4
- IEC-950/VDE-0805 EN-60-950 Standard: Yes
- Bellcore: No

## Cisco Secure PIX 506 Firewall Pricing and Part Numbers

Order Number	Product Name	Description
PIX-506	PIX 506	Chassis, software, two 10Base-T ports
PIX-VPN-DES		56-bit DES IPsec software license for PIX 506
PIX-506-SW-3DES		168-bit 3DES IPsec software license for PIX 506

### Export Considerations

PIX VPN software may be export controlled. Please refer to the export compliance Web site at: <http://www.cisco.com/wwl/export/crypto/> for guidance. For specific export questions, please contact [export@cisco.com](mailto:export@cisco.com)

### Additional Information

Cisco Secure PIX Firewall:

<http://www.cisco.com/go/pix/>

Cisco Enterprise Virtual Private Network

<http://www.cisco.com/go/evpn/>



#### Corporate Headquarters

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
<http://www.cisco.com>  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 526-4100

#### European Headquarters

Cisco Systems Europe s.a.r.l.  
Parc Evolic, Batiment L1/L2  
16 Avenue du Quebec  
Villebon, BP 706  
91961 Courtaboeuf Cedex  
France  
<http://www-europe.cisco.com>  
Tel: 33 1 69 18 61 00  
Fax: 33 1 69 28 83 26

#### Americas Headquarters

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
<http://www.cisco.com>  
Tel: 408 526-7660  
Fax: 408 527-0883

#### Asia Headquarters

Nihon Cisco Systems K.K.  
Fuji Building, 9th Floor  
3-2-3 Marunouchi  
Chiyoda-ku, Tokyo 100  
Japan  
<http://www.cisco.com>  
Tel: 81 3 5219 6250  
Fax: 81 3 5219 6001

**Cisco Systems has more than 200 offices in the following countries. Addresses, phone numbers, and fax numbers are listed on the Cisco Connection Online Web site at <http://www.cisco.com/offices>.**

Argentina • Australia • Austria • Belgium • Brazil • Canada • Chile • China • Colombia • Costa Rica • Croatia • Czech Republic • Denmark • Dubai, UAE  
Finland • France • Germany • Greece • Hong Kong • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia  
Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Singapore  
Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela

Copyright © 2000 Cisco Systems, Inc. All rights reserved. Printed in the USA. Cisco, Cisco IOS, Cisco Systems, and the Cisco Systems logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries. All other trademarks mentioned in this document are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any of its resellers. (9912R) 04/00 BW6049