

## The Cisco Secure PIX 515 Firewall

THE CISCO SECURE PIX™ FIREWALL SERIES HAS ESTABLISHED A STRONG NUMBER 1 POSITION IN THE STANDALONE FIREWALL MARKET BY A COMBINATION OF ITS INDUSTRY-LEADING PERFORMANCE AND END-TO-END SECURITY SERVICES.

The Cisco Secure PIX™ Firewall series has established a strong number-one position in the standalone firewall market by a combination of its industry-leading performance (as shown by Key Labs, Inc. Firebench testing) and its unique position as one of the key elements in Cisco end-to-end security services. The integrated hardware/software Cisco Secure PIX Firewall series delivers high security without impacting network performance, scaling to meet the entire range of customer requirements.

Although the PIX 520 is the undisputed leader in high-end perimeter security, the advent of Virtual Private Networks (VPNs) and increasing numbers of small and medium-sized businesses into the Internet marketplace has expanded the demands of the firewall market. More organizations today demand powerful firewall features affordably priced for global VPN implementations, for distribution to regional branches, or for small to medium-sized businesses looking for security on a budget.

The PIX 515 is designed to answer this need. Now, with the release of PIX v5.0 software, and all subsequent v5.x releases, all appliances, including both the PIX 515-R and PIX 515-UR, fully support the implementation of IPSec. This release allows the PIX to create and/or terminate VPN tunnels between two PIXes, between a PIX and any Cisco VPN enabled router, and between a PIX and the Cisco Secure VPN Client.

### **PIX-515: Restricted Software Bundle**

The PIX 515-R with the Restricted software license is the entry-level Cisco solution for those organizations looking to deploy high-performance security with basic firewall functionality. It provides enough power for over 50,000 concurrent connections and up to 170 Mbps of throughput.

The PIX 515-R-BUN, with support for up to three Ethernet interfaces, is an especially cost-effective solution for many smaller companies that choose to host their Web site on the outside of their firewall, or through an Internet service provider (ISP), and yet have a need for an inexpensive price/performance firewall solution. It is also ideal for remote sites that require only two-way communication with their corporate network, and situations in which the corporate network provides all Web services on its enterprise firewall.

### **PIX-515: Unrestricted Software**

The PIX 515-UR (unrestricted) provides all the functionality of the PIX 515-R-BUN, as well as fail-over functionality, and up to six 10/100 Ethernet ports. These four additional ports allow for more robust traffic configurations as well as hosting a protected DMZ for hosting a Web site or performing URL filtering and virus detection. Designed for mid-sized organizations, the PIX 515 UR provides nearly 170 Mbps of throughput and over 100,000 concurrent connections for fast, reliable, and affordable security protection.

### **PIX 515: Fail-Over Bundle**

Firewall redundancy is critical for those organizations whose Internet, intranet, or extranet connections are their corporate lifeline. Every minute a firewall is down means lost revenue, opportunity, or critical information. Cisco has created a new

fail-over bundle package for the PIX 515 UR, enabling this need to be met simply and inexpensively. This package provides organizations with a second firewall, especially designed to run exclusively in fail-over mode, for a fraction of the cost of a standard PIX 515 UR bundle.

## Upgrading the PIX-515-R to the PIX-515-UR

As businesses grow, so do their security needs. That's why today Cisco has developed an affordable upgrade path from the PIX-515-R to the PIX-515-UR, allowing a simple upgrade path to increased functionality and performance tomorrow. The PIX-515-SW-UPG= with the PIX-MEM-32= transforms a restricted licensed PIX 515 to unrestricted and will not cost you anymore than if you had purchased the unrestricted license.

Cisco Secure PIX 515 Firewall Pricing and Part Numbers

Order Number	Product Name/Description
PIX-515-R-BUN	PIX 515; PIX-515-SW-R
PIX-515-UR-BUN	PIX 515; PIX-515-SW-UR; PIX-515-MEM-32
PIX-515-FO-BUN	PIX 515 fail-over chassis and software bundle
PIX-515-SW-UPG=	PIX 515 Firewall—Restricted-to-Unrestricted software upgrade; requires PIX-515-MEM-32
PIX-515	PIX 515 Firewall; two integrated Ethernet interfaces; 200-MHz processor; 32-MB memory; two expansion slots
PIX-515-SW-R	PIX 515 Firewall Restricted software—Supports three Ethernet interfaces; 32-MB RAM; does not support fail-over feature
PIX-515-SW-UR	PIX 515 Firewall Unrestricted software—Supports up to six Ethernet interfaces and all PIX features; requires PIX-515-MEM-32
PIX-515-MEM-32	32-MB RAM upgrade for the PIX 515 Firewall
PIX-515-FO-SW	PIX 515 fail-over software license
PIX-FO=	Fail-over cable/upgrade kit—software Version 3.0 or later
PIX-PL2	Private Link 2 56-bit DES encryption card

Cisco Secure PIX 515 Firewall Hardware Platforms and Specifications

	PIX Firewall 515-R	PIX Firewall 515-UR
<b>Hardware</b>		
Case	19-in. rack-mountable (comes with rack-mount hardware); single rack unit	19-in. rack-mountable (comes with rack-mount hardware); single rack unit



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	PIX Firewall 515-R	PIX Firewall 515-UR
Random Access Memory	32 MB	64 MB
Flash Memory	16 MB	16 MB
Console Port	RJ-45	RJ-45
Boot/Update Device	TFTP only	TFTP only
Failover Port*	Disabled	DB-25 EIA/TIA-232
<b>Physical Dimensions</b>		
Height	1.72 in.	1.72 in
Width	16.82 in.	16.82 in.
Depth	11.8 in.	11.8 in.
Weight	11 lb.	11 lb.
<b>Power Requirements</b>		
Autoswitching	100–240 VAC	100–240 VAC
Frequency	50–60 Hz	50–60 Hz
Current	1.5–0.75 amps	1.5–0.75 amps
<b>Operating Environment</b>		
Operating Temperature	–5 to +45°C (–25 to 113°F)	–5 to +45°C (–25 to 113°F)
Nonoperational Temperature	–25 to +70°C	–25 to +70°C
Operational Humidity	95% relative humidity (RH)	95% relative humidity (RH)
Operational Altitude	3000m (9843 feet), 25°C (77°F)	3000m (9843 feet), 25°C (77°F)
Nonoperational Altitude	4570m (15,000 feet), 25°C (77°F)	4570m (15,000 feet), 25°C (77°F)
Operational Shock	1.88 m/sec (74 in./sec) 1/2 sine input	1.88 m/sec (74 in./sec) 1/2 sine input
Nonoperational Shock	60G 11 ms 1/2 sine input	60G 11 ms 1/2 sine input
Operational Vibration	0.41 Grms2 (5–500 Hz) random input	0.41 Grms2 (5–500 Hz) random input
Nonoperational Vibration	0.41 Grms2 (5–500 Hz) random input	0.41 Grms2 (5–500 Hz) random input
Heat Dissipation (worst case with full power usage)	160.37 BTU/hr	160.37 BTU/hr
EMI	CE, VCCI class II, FCC, BCIQ, Austel	CE, VCCI class II, FCC, BCIQ, Austel
Safety Agencies	UL, C-UL, TUV, IEC 950	UL, C-UL, TUV, IEC 950
UL-1950 Standard	3rd edition	3rd edition
TUV EN 60950	2nd edition, Am.1-4	2nd edition, Am.1-4
IEC-950/VDE-0805 EN-60-950 Standard	Yes	Yes
Bellcore	No	No