

The Cisco PIX 515 Firewall

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

Overview of the PIX 515 Firewall

The Cisco PIX™ Firewall series has established a strong number 1 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 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 begun to expand the firewall market. More organizations today are demanding 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.

PIX 515 R

The PIX 515-R (restricted) 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 515R, with its two 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 UR

The PIX 515-UR (unrestricted) provides all the functionality of the PIX 515-R, 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 Cisco has developed an affordable upgrade path from the PIX 515 R to the PIX 515 UR, allowing for an economic choice now, and a simple upgrade path to increased functionality and performance tomorrow.

PIX 515 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-R; 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 only two Ethernet interfaces; 8-MB Flash storage; 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

PIX 515 Hardware Platforms and Specifications

	PIX Firewall 515-R	PIX Firewall 515-UR
Hardware		
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
Random Access Memory	32 MB	64 MB
Flash Memory	8 MB	16 MB
Console Port	RJ-45	RJ-45
Boot/Update Device	TFTP only	TFTP only
Failover Port*	Disabled	DB-25 EIA/TIA-232
Physical Dimensions		
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.

	PIX Firewall 515-R	PIX Firewall 515-UR
Power Requirements		
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
Operating Environment		
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

*Fail-over requires special Cisco cable



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