



CISCO PIX SECURITY APPLIANCES AND CISCO CATALYST 6500 SERIES SECURITY SYSTEMS—AT-A-GLANCE



CISCO PIX SECURITY APPLIANCE SERIES AND CISCO CATALYST 6500 SERIES SECURITY SYSTEMS

The market-leading Cisco PIX® 500 Security Appliance Series and Cisco Catalyst® 6500 Series Security Systems deliver a multilayered defense for enterprise and service provider networks through rich, integrated security services including stateful inspection firewalling, advanced application and protocol inspection, virtual private networking (VPN), in-line intrusion protection, and rich multimedia and voice security—all in a single, integrated solution. Ranging from compact, “plug-and-play” appliances for small and home office environments to high performance services modules for the most demanding data center environments, Cisco PIX Security Appliances and Cisco Catalyst 6500 Series Security Systems provide robust security, performance, and reliability for network environments of all sizes.

BENEFITS

Security

Cisco PIX Security Appliances and the Cisco Catalyst 6500 Series Security Systems are best-of-breed security solutions that offer an unprecedented level of network protection. Incorporating the state-of-the-art Cisco Adaptive Security Algorithm, these systems provide rich stateful inspection firewall services by tracking the state of all authorized network communications and preventing unauthorized network access. As an additional layer of security, these systems integrate over two dozen purpose-built application/protocol inspection engines that perform in-depth Layer 4–7 inspection of network traffic flows for many of today’s popular applications and protocols.

Performance

Cisco PIX Security Appliances and Cisco Catalyst 6500 Series Security Systems deliver industry-leading firewall and VPN price/performance for environments of all sizes. Solutions range from desktop appliances providing over 60 Mbps of throughput to services modules utilizing ground-breaking, highly scalable multinetwork processor architectures delivering over 20 Gbps of throughput for the most demanding datacenter environments.

Reliability

Cisco PIX Security Appliances and Cisco Catalyst 6500 Series Systems provide award-winning stateful failover capabilities that ensure resilient network protection for enterprise network environments. Employing a cost-effective, active-standby, high-availability architecture, Cisco PIX Security Appliances and Cisco Catalyst 6500 Series Systems that are configured as a failover pair continuously synchronize their connection state and device configuration data—so that in the event of a system or network failure, network sessions are automatically transitioned between firewalls, with complete transparency to users.

Table 1. Cisco PIX Security Appliances and Cisco Catalyst 6500 Series Firewall Systems

Cisco PIX Security Appliance Series	501-10	501-50	501-Unlimited	506E	515E-R	515E-UR	525-R	525-UR	535-R	535-UR	Cisco Catalyst 6500 Firewall System
Cisco PIX Software Release	6.3(4)	6.3(4)	6.3(4)	6.3(4)	6.3(4)	6.3(4)	6.3(4)	6.3(4)	6.3(4)	6.3(4)	2.2
MSRP	\$595	\$845	\$995	\$1395	\$3495	\$6995	\$8995	\$12,995	\$29,995	\$37,995	\$59,995
Market	SOHO	SOHO	SOHO	ROBO	SMB	SMB	Enterprise	Enterprise	Large enterprise	Large enterprise	Large enterprise
Licensed users	10	50	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
VPN peers	10	10	10	25	N/A	2000	N/A	2000	N/A	2000	8000 with VPNSM+
Processor (MHz)	133	133	133	300	433	433	600	600	1000	1000	Multinetwork processor
Shipping RAM (MB)	16	16	16	32	32	64	128	256	512	1024	2048
Flash (MB)	8	8	8	8	16	16	16	16	16	16	128
Integrated 10/100 ports	1** + 4-port switch	1** + 4-port switch	1** + 4-port switch	2***	2	2	2	2	2****	2****	2 GBIC
Integrated VAC or VAC+	No	No	No	No	No	Yes	No	Yes	No	Yes	N/A
PCI slots	0	0	0	0	2	2	3	3	9	9	1 Cisco Catalyst slot available
Maximum ports (physical)	1+ 4-port switch	1+ 4-port switch	1+ 4-port switch	2	3	6	6	8	8	10	Depends on chassis
Maximum ports (physical and virtual)	1+ 4-port switch	1+ 4-port switch	1+ 4-port switch	3	5	8	8	10	10	24	1000
Failover support	No	No	No	No	No	Yes	No	Yes	No	Yes	Yes
Open Shortest Path First (OSPF) support	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN support	No	No	No	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Easy VPN Remote (hardware VPN client)	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
Easy VPN Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes with VPNSM module+
Bidirectional firewall throughput (Mbps)	60	60	60	100	—	188	—	330	—	1657	5500
3DES throughput (Mbps); VAC or VAC+	3	3	3	15	20	60/135	30	70/145	50	100/425	2000 with VPNSM+
AES-128 throughput (Mbps); VAC+	4.5	4.5	4.5	30	45	130	65	135	110	495	N/A
AES-256* throughput (Mbps); VAC+	3.4	3.4	3.4	25	35	130	50	135	90	425	N/A
Total connections	7500	7500	7500	25,000	—	130,000	—	280,000	—	500,000	1,000,000

* = New in Cisco PIX OS 6.3(4)

** = 10/100 full-duplex with Cisco PIX OS 6.3; 10BASE-T half-duplex with previous releases

*** = 10/100 full-duplex with Cisco PIX OS 6.3; 10BASE-T full-duplex with previous releases

**** = Two 10/100 cards included by default in Cisco PIX 535 R, UR, and FO bundles

+ = Cisco Catalyst 6500 IPSec VPN Service Module (VPNSM) sold separately