

Cisco Secure PIX Firewall 535



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The Cisco Secure PIX™ Firewall 535 delivers carrier-class performance that meets the needs of large enterprise networks as well as service providers. As part of the world-leading Cisco Secure PIX Firewall series, it provides today's networking customers with unmatched security, reliability, and performance. The PIX 535 integrates stateful firewall and IP Security (IPsec) virtual private network (VPN) functionality with Gigabit Ethernet throughput.

The PIX 535 is a purpose-built firewall appliance that offers an unprecedented level of protection. This is tightly integrated with the PIX Operating System (OS), which is a proprietary, hardened system that eliminates security holes and performance degrading overhead. At the heart of this system is a protection scheme based on the Adaptive Security Algorithm (ASA), which offers stateful connection-oriented firewalling that is capable of 500,000 concurrent connections while at the same time blocking common denial of service (DoS) attacks.

The PIX 535 is also a full-featured VPN gateway that can securely transport data over public networks. It supports both site-to-site and remote access VPN applications via 56-bit Data Encryption Standard (DES) or 168-bit 3DES. The integrated VPN functionality of the PIX 535 can be supplemented with an optional VPN Accelerator Card (VAC) to deliver 100 Mbps throughput and 2,000 IPsec tunnels.

High availability is supported with the deployment of a redundant hot standby unit. This failover option maintains concurrent connections through automatic stateful synchronization. This insures that even in the event of a system failure, sessions are maintained and the transition is completely transparent to network users. The PIX 535 also allows you to add an optional redundant, hot-swappable power supply to AC or DC models, making the PIX 535 a truly fault-tolerant security appliance.





Restricted Software License

The PIX 535, with a restricted software license, includes 512 MB of RAM and support for up to six Gigabit Ethernet or 10/100 Fast Ethernet interfaces, as well as a single VAC.

Unrestricted Software License

The PIX 535, with an unrestricted license, includes 1 GB of RAM and support for up to eight Gigabit Ethernet or 10/100 Fast Ethernet interfaces, as well as a single VAC. The PIX 535-UR also adds the ability to share state information with a hot-standby PIX for complete firewall redundancy.

Failover Software License

The PIX 535, with a failover software license, operates in hot-standby mode. Acting as a complete redundant system that maintains current sessions, it offers the ultimate in high availability for a fraction of the price.

Performance Summary

Cleartext throughput: 1.0 Gbps
Concurrent connections: 500,000
Connections per second: 7,000
168-bit 3DES IPsec VPN throughput: 100 Mbps
Simultaneous VPN tunnels: 2,000

Technical Specifications

Processor: 1.0-GHz Intel Pentium III
Random Access Memory: 512 MB, or 1 GB of SDRAM (Registered PC133)
Flash Memory: 16 MB
Cache: 256 KB level 2 at 1 GHz
System BUS: Dual 64-bit, 66-MHz PCI; Single 32-bit, 33-MHz PCI

Environmental

Operating

Temperature: -25° to 131° F (-5° to 55° C)
Relative Humidity: 5% to 95% noncondensing
Altitude: 0 to 9,843 feet (3,000m)
Shock: 1.14 m/sec (45 in./sec) 1/2 sine input
Vibration: 0.41 Grms² (3-500 Hz) random input
Acoustic Noise: 65 dBA maximum

Nonoperating

Temperature: -13° to 158° F (-25° to 70° C)
Relative Humidity: 5% to 95% noncondensing
Altitude: 0 to 15,000 feet (4,570m)
Shock: 30G
Vibration: 0.41 Grms² (3-500 Hz) random input

Power

Input (per power supply)

Range Line Voltage: 100V to 240V AC or 48V DC
Nominal Line Voltage: 100V to 240V AC or 48V DC
Current: 4-2 Amps
Frequency: 50 to 60 Hz, single phase
Power: 220W (Dual hot swap capable)

Output

Steady State: 135W
Maximum Peak: 220W
Maximum Heat Dissipation: 750 BTU/hr, Full power usage (220W)

Dimensions and Weight

Height: 5.25 inches (8.89 cm), 3 RU
Width: 17.5 inches (44.45 cm), Standard 19-inch rack mountable
Depth: 18.25 inches (46.36 cm)
Weight (one power supply): ~ 32 pounds (14.5 kg)

Expansion

PCI BUS: Nine PCI slots (four at 64-bit/66-MHz, five at 32-bit/33-MHz)
Random Access Memory: Six DIMM slots support up to 6GB PC133 DRAM (1 GB maximum supported by PIX OS)

Interfaces

Console Port: RS-232 (RJ-45) 9600 baud
Failover Port: RS-232 (DB-15) 115 Kbps (Cisco specified cable required)

Certifications

Safety: UL 1950, CSA C22.2 No. 950, EN 60950, IEC 60950, AS/NZS3260, TS001, IEC60825, EN 60825, 21CFR1040

EMI: CFR 47 Part 15 Class A (FCC), ICES 003 Class A with UTP, EN55022 Class A with UTP, CISPR 22 Class A with UTP, AS/NZ 3548 Class A with UTP, VCCI Class A with UTP, EN55024, EN50082-1 (1997), CE marking, EN55022 Class B with FTP, Cispr 22 Class B with FTP, AS/NZ 3548 Class B with FTP, VCCI Class B with FTP

Ordering Information

PIX-535-UR-BUN	PIX 535 Unrestricted Bundle (Chassis, unrestricted license, two 10/100 ports)
PIX-535-R-BUN	PIX 535 Restricted Bundle (Chassis, restricted license, two 10/100 ports)
PIX-535-FO-BUN	PIX 535 Failover Bundle (Chassis, failover license, two 10/100 ports)
PIX-535	PIX 535 chassis only
PIX-535-PWR-AC	Redundant AC power supply for PIX 535
PIX-535-PWR-DC	Redundant DC power supply for PIX 535
PIX-1GE-66	Single 66-MHz Gigabit Ethernet interface (multimode fiber, SC connector)
PIX-4FE	Four-port 10/100 Fast Ethernet interface
PIX-1FE	Single-port 10/100 Fast Ethernet interface
PIX-VPN-ACCEL	IPsec Hardware VPN Accelerator Card (VAC)
PIX-VPN-3DES	168-bit 3DES IPsec VPN software license
PIX-VPN-DES	56-bit DES IPsec VPN software license

Additional Information

For more information about PIX Firewall, go to <http://www.cisco.com/go/pix>



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