

Perimeter Gateway Security Device	
	<b>OEM &amp; Model/Part Number:</b>
Parameter	Requirement
<b>Interfaces</b>	Minimum: Qty (10) 1 Gigabit Copper/Fiber
	Minimum: Qty (4) 10 Gigabit SFP+
	Minimum Management: Qty (1) 100/1000 Copper
	Minimum Console: Qty (1)
<b>Power</b>	Redundant power supplies
	Follows NEMA standards
<b>Performance</b>	Minimum Throughput (Multi-protocol): 20 Gbps Full-Duplex
	Maximum Throughput (Multi-protocol): N/A
	Minimum Concurrent Sessions: 3,000,000
	Maximum Concurrent Sessions: N/A
	Minimum Number of Supported VLANs: 1,024
	Minimum Number of Supported Access Control Entries (ACEs): 250,000 (per context)
	Minimum Virtual Instances: 100
<b>Required Features</b>	High Availability: A/P, A/A
	Routing: Static, OSPFv3
	IPv4/IPv6
	802.1q
	Link Aggregation
	Auto-duplex interface capabilities
	Layer 2 Transparent, Layer 3 Routed, Virtualized Layer 2, Virtualized Layer 3 Modes
	Low impact chassis cluster upgrades
	Configuration synchronization
	Session synchronization for firewall
	Device failure detection
	Link and upstream failure detection
	Dual control links (session + state)
	Active-Standby stateful failover
	Active-Active stateful failover support in multiple context mode; Session failover for routing change
	Scalability: Cluster or Load Balancing
	Network Address Translation (NAT)
	Port Address Translation (PAT)
	Syslog
	ACL Logging (Buffered and Remote)
	Resource management controls resource usage per security context
	Dynamic port allocation
	Protocol state tracking
<b>Management</b>	SSHv2 to CLI
	Web GUI-based single device manager (HTTPS)
	SNMP v2c MIBs and traps, SNMPv3
	Authentication, authorization, and accounting (AAA): RADIUS support
	Role-based administrative access
	Online upgrade
	Support for two-factor authentication

Mid-Range Internal Security Device	
	<b>OEM &amp; Model/Part Number:</b>
Parameter	Requirement
<b>Interfaces</b>	Minimum: Qty (6) 1 Gigabit Copper/Fiber
	Minimum: Qty (2) 10 Gigabit SFP+
	Minimum Management: Qty (1) 100/1000 Copper
	Minimum Console: Qty (1)
<b>Power</b>	Redundant power supplies
	Follows NEMA standards
<b>Performance</b>	Minimum Throughput (Multi-protocol): 10 Gbps Full-Duplex
	Maximum Throughput (Multi-protocol): 20 Gbps Full-Duplex
	Minimum Concurrent Sessions: 1,000,000
	Maximum Concurrent Sessions: 3,000,000
	Minimum Number of Supported VLANs: 1,024
	Minimum Number of Supported Access Control Entries (ACEs): 125,000 (per context)
	Minimum Virtual Instances: 20
<b>Required Features</b>	High Availability: A/P, A/A
	Routing: Static, OSPFv3
	IPv4/IPv6
	802.1q
	Link Aggregation
	Auto-duplex interface capabilities
	Layer 2 Transparent, Layer 3 Routed, Virtualized Layer 2, Virtualized Layer 3 Modes
	Low impact chassis cluster upgrades
	Configuration synchronization
	Session synchronization for firewall
	Device failure detection
	Link and upstream failure detection
	Dual control links (session + state)
	Active-Standby stateful failover
	Active-Active stateful failover support in multiple context mode; Session failover for routing change
	Scalability: Cluster or Load Balancing
	Network Address Translation (NAT)
	Port Address Translation (PAT)
	Syslog
	ACL Logging (Buffered and Remote)
	Resource management controls resource usage per security context
	Dynamic port allocation
	Protocol state tracking
<b>Management</b>	SSHv2 to CLI
	Web GUI-based single device manager (HTTPS)
	SNMP v2c MIBs and traps, SNMPv3
	Authentication, authorization, and accounting (AAA): RADIUS support
	Role-based administrative access
	Online upgrade
	Support for two-factor authentication

Service Security Device	
	OEM & Model/Part Number:
Parameter	Requirement
Interfaces	Minimum: Qty (2) 1 Gigabit Copper/Fiber
	Minimum: Qty (0) 10 Gigabit SFP+
	Minimum Management: Qty (1) 100/1000 Copper
	Minimum Console: Qty (1)
Power	Single power supply
	Follows NEMA standards
Performance	Minimum Throughput (Multi-protocol): 1 Gbps Full-Duplex
	Maximum Throughput (Multi-protocol): 10 Gbps Full-Duplex
	Minimum Concurrent Sessions: 125,000
	Maximum Concurrent Sessions: 1,000,000
	Minimum Number of Supported VLANs: 1,024
	Minimum Number of Supported Access Control Entries (ACEs): 50,000 (per context)
	Minimum Virtual Instances: 5
Required Features	High Availability: A/P, A/A
	Routing: Static, OSPFv3
	IPv4/IPv6
	802.1q
	Link Aggregation
	Auto-duplex interface capabilities
	Layer 2 Transparent, Layer 3 Routed, Virtualized Layer 2, Virtualized Layer 3 Modes
	Low impact chassis cluster upgrades
	Configuration synchronization
	Session synchronization for firewall
	Device failure detection
	Link and upstream failure detection
	Dual control links (session + state)
	Active-Standby stateful failover
	Active-Active stateful failover support in multiple context mode; Session failover for routing change
	Scalability: Cluster or Load Balancing
	Network Address Translation (NAT)
	Port Address Translation (PAT)
	Syslog
	ACL Logging (Buffered and Remote)
	Resource management controls resource usage per security context
	Dynamic port allocation
	Protocol state tracking
	VoIP Aware, SIP, SCCP
Management	SSHv2 to CLI
	Web GUI-based single device manager (HTTPS)
	SNMP v2c MIBs and traps, SNMPv3
	Authentication, authorization, and accounting (AAA): RADIUS support
	Role-based administrative access
	Online upgrade
	Support for two-factor authentication