

Refurbished CISCO WS-IPSEC-3 Datasheet

CISCO > SWITCHES

Cisco Catalyst 6500 Series Switches

Features of Cisco VSPA	
Feature	
Next-Generation Encryption Technology	In addition to supporting DES and 3DES, the Cisco VSPA supports AES, including all key sizes (128-, 192-, and 256-bit keys). Designed to be the next-generation encryption technology, AES offers the ultimate in IPsec VPN security and interoperability.
High-Speed VPN Performance	High-speed VPN performance provides up to 8 Gbps of AES IPsec throughput and 7 Gbps of IMIX traffic.
Modular Design/Scalability	Up to 10 Cisco Services SPA Carrier-600 modules and 10 Cisco VSPAs in a Cisco Catalyst 6500 chassis.
Enhanced QoS Support	Enhanced QoS to avoid congestion and improve application performance. Preencryption QoS Aggregate tunnel shaper 8 classes of traffic allowing bandwidth reservation Low latency queuing (LLQ) for delay-sensitive traffic
Scalable IPv6 Encryption	Scalable support for multiple gigabit IPv6 networks.
Attractive Form Factor	Using the Cisco Services SPA Carrier-600, each slot of the Cisco Catalyst 6500 supports up to two VSPAs. The half-slot form factor of the SPA reduces slot consumption and increases total performance per slot.
Jumbo Frame Support	The Cisco VSPA supports jumbo frames up to 9216 bytes without the need for fragmentation by the supervisor module.
Full Integration of VPN into Network Infrastructure	The Cisco VSPA supports the Cisco Catalyst 6500 Series chassis as well as both LAN and WAN interfaces, enabling an integrated security approach to building a VPN in your infrastructure. No separate VPN devices are needed within your campus, intranet, Internet data center, or point of presence (POP).
Comprehensive VPN Features	The Cisco VSPA provides hardware acceleration for both IPsec and GRE, comprehensive support of site-to-site IPsec, remote-access IPsec, and certificate authority/public key infrastructure (CA/PKI).
Diverse Network Traffic Types and Topologies	Cisco IOS Software supports secure, reliable transport of virtually any type of network traffic, including multiprotocol, multicast, and IP telephony across the IPsec VPN. Rich routing capabilities enable Dynamic Multipoint VPNs (DMVPNs) for meshed and hierarchical network topologies, maximizing deployment flexibility while minimizing operational complexity and cost.
VPN Resiliency and High Availability	Routing over IPsec tunnels, DPD, HSRP+RRR, and intrachassis and interchassis stateful failover for both IPsec and GRE provide superior VPN resiliency and high availability.
DMVPN	DMVPN helps enable a dynamic partial-mesh or full-mesh site-to-site VPN while greatly simplifying the management of large VPN deployments. This feature helps dynamic spoke-to-spoke tunnel establishment without preconfiguration in the spoke routers and helps enable the VPN to dynamically add or remove spoke routers without any change to other spoke configurations. This improves network performance by reducing latency and jitter while optimizing main-office bandwidth use. This includes advanced voice-over-IP (VoIP) support for full-service branch deployments.
Virtual Routing and Forwarding (VRF)-Aware IPsec VPN	VRF-aware IPsec features help enable mapping of IPsec tunnels to VRF instances to provide network-based IPsec VPNs and the integration of IPsec with MPLS VPNs. This feature helps service providers, large enterprises, and educational institutions build secure, scalable, and virtualized VPN services across their network infrastructures.

Product Specifications	
Features	
Features	Descriptions

VPN Tunneling	IPsec (RFCs 2401-2411 and 2451)
Encryption	Encapsulating Security Payload (ESP) DES 3DES AES 128, 192, 256
Authentication	X.509 digital certificates (RSA signatures) Encrypted Nonces (RSA encryption) Preshared keys Simple Certificate Enrollment Protocol (SCEP) RADIUS (RFC 2138) TACACS+
Integrity	Hashed Message Authentication Code with MD5 (HMAC-MD5) and with Secure Hash Algorithm-1 (HMAC-SHA-1) (RFCs 2403 and 2404)
Key Management	Internet Key Exchange (IKE; RFCs 2407-2409) IKE-XAUTH IKE-CFG-MODE
CA/PKI Support	Entrust VeriSign Microsoft Netscape IPlanet Baltimore Technologies
Resiliency and High Availability	HSRP + RRI Intrachassis (blade-to-blade) IPsec stateful failover Interchassis (box-to-box) active/standby IPsec stateless failover DPD Dynamic routing across IPsec (see "Routing Protocols" section of this table)
Supervisor Engines	Cisco Catalyst 6500 Series Supervisor Engine 32, 720 Series, or VSS_10G
Supported LAN Interfaces	Multiport Fast Ethernet Multiport Fast Ethernet with inline power Multiport Gigabit Ethernet 10 Gigabit Ethernet
Supported WAN Interfaces	Gigabit Ethernet WAN and Enhanced Gigabit Ethernet WAN Single- and dual-port T3/E3 Single- and dual-port High-Speed Serial Interface (HSSI) Multiport T1/E1 Multichannel T1/T3/E3 OC-3 ATM single-mode (SM) and multimode (MM) OC-3 packet over SONET/SDH (POS) SM and MM OC-12 ATM SM and MM OC-12 POS SM and MM OC-48 POS SM OC-48 POS-Dynamic Packet Transport (DPT) SM
Physical Dimensions	Length: 5.92 in. (15 cm) Width: 6.75 in. (17.15 cm) Height: 1.52 in. (3.9 cm) (double height)

Regulatory Standards Compliance: Safety and EMC

Specification

Regulatory Compliance	Products should comply with CE Markings per directives 2004/108/EC and 2006/95/EC
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EMC—Immunity

EMC—Immunity	EN50082-1 EN61000-6-1 EN55024 CISPR24 EN300386 KN immunity series
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NEBS Compliance and ETSI 300-019 Environmental Requirements

NEBS Criteria Levels	SR-3580 NEBS level 3 (GR-63-CORE, issue 3, GR-1089 CORE, issue 4)
Verizon NEBS Compliance	Telecommunications Carrier Group (TCG) Checklist

Qwest NEBS requirements	Telecommunications Carrier Group (TCG) Checklist
ATT NEBS Requirements	ATT TP76200 level 3, TP7645 and TCG Checklist
ETSI	ETS 300 019-1-1, Class 1.2 Storage ETS 300 019-1-2, Class 2.3 Transportation ETS 300 019-1-3, Class 3.2 Stationary Use

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