Cloud Service Gateway

CSG2500 Series Appliance Datasheet

Introduction

Versa Cloud Services Gateway appliances are a family of next-generation enterprise networking appliances that are based on x86 architecture. Versa CSG appliances are purpose built to deliver Secure SD-WAN with comprehensive integrated security, fully featured SD-WAN, scalable advanced routing, and genuine multitenancy. Versa CSG2500 appliances run VOS™ (Versa Operating System) natively and are ideal for Enterprises with high performance campus and data center WAN Edge deployments.

CSG2500 high performance appliances are supported by Versa management and control software including Versa Director and Versa Analytics. Versa Secure SD-WAN helps migrate from legacy WANs to a Software-Defined WAN Edge and Software Defined Branch, achieving superior business agility, seamless connectivity and lower TCO. Versa CSG appliances enable secure, scalable and reliable enterprise-wide networking.

Product Description

CSG2500 appliances deliver carrier-grade reliability, high performance, and high compute capacity for enterprise-grade routing, SD-WAN, next-generation security, and uCPE scenarios. They are designed for WAN edge deployments in large regional offices, campus sites, and data centers that require advanced secure SD-WAN along with a comprehensive advanced application, cloud-intelligent SD-WAN, and SASE services on premises.

Versa CSG2500 appliances are excellent choices as compute resources to host 3rd party software in the form of VMs (virtual machines) without the need to purchase any other specialized hardware or cpmpute module.

The CSG2500 appliances come with LAN and WAN ports, including eight RJ45 based 1 Gbps Ethernet and eight SFP+ based 10 Gbps Ethernet interfaces. SFP+ interfaces provide options to deploy 10-Gigabit Ethernet interfaces via 10 Gbps SFP+ modules or 1 Gbps interfaces via 1 Gbps SFP modules. Customers can configure any of these ports as LAN or WAN ports while interface markers on he faceplate of the unit indicate LAN/WAN flexibility and port number markings.

To ease rack-mounted deployments, CSG2500 platforms come with faceplate that has integrated rack mount ears, eliminating the need to install such rack mount ears on site. CSG2500 units are designed to simplify operations and accessibility and to improve visibility of device operational status and health. Power, Status and Cloud LEDs provide succinct visualization of the operational status of the device and connections.

CSG 2500 series Front View and Back View

The Versa CSG Appliance Advantage

The Versa CSG2500 series appliances are highly performing, scalable high-end branch appliances for Secure SD-WAN deployments.

Versatility and Flexibility

Versa CSG2500 series appliances are based on an x86 architecture, taking advantage of the latest performance enhancements for packet processing, encryption offload and compression/ decompression offload capabilities in hardware. The innovative Versa CSG2500 series appliances are engineered to deliver high-performance and scalable multi-tenant, cloud-native enterprise-grade networking and security services, such as routing, SD-WAN, NGFW, CGNAT, 802.1x based access control and more.

Resiliency and Manageability Advantage

The Versa CSG2500 series appliances are designed for resiliency and durability to ensure business and services continuity. The appliances come with secure BIOS and secure boot capabilities. Furthermore, Versa CSG2500 platforms have separate, built-in IPMI capabilities, accessible by a separate, dedicated Ethernet interface. Through IPMI Versa offers additional out-of-band hardware-based platform management capabilities.

The Versa CSG2500 series appliances have specially designed LEDs that are unique and intuitive to instantly provide device and interface status for ease of manageability.

Security Advantage

The platform hardware has been designed with security use-cases in mind. A TPM chip along with crypto acceleration integrated into the appliance ensures the integrity and security of critical data, such as encryption and authentication keys. Also the appliance is built with Secure Boot capabilities.

Scaling and Performance

Versa CSG2500 series appliance models should be chosen based on the expected throughput and the required features for the branch architecture. The table below lists the expected throughput of each appliance model.

	CSG2500
Recommended Deployment	Enterprise Branch High Performance
Throughput	
Routing	50 Gbps
Stateful Firewall	50 Gbps
SD-WAN DIA	35 Gbps
SD-WAN site to site	25 Gbps
NGFW with SD-WAN	20 Gbps
NGFW + AV with SD-WAN	10 Gbps
NGFW + IPS with SD-WAN	6 Gbps
NGFW + UTM with SD-WAN	5 Gbps

** For a complete list of software features supported by Versa Networks for the WAN edge, see the VOS™ datasheet.

** Refer to the latest Versa CSG2500 appliance release notes and product documentation for the latest information on supported features, interfaces, limitations, performance, and best practices

** The performance numbers are observed with Versa recommended configuration and traffic conditions. The SD-WAN performance is measured using IMIX packet size mix. The UTM traffic performance is measured assumes 1 Mb response for HTTP traffic when 100 percent traffic is inspected for UTM

Hardware Specifications

	CSG2500
Networking Interfaces	
Wired Interfaces	8 x 10/100/1000 RJ45 based Ethernet ports 8 x SFP+ based 10GE/1GE ports
Management	1 x RJ45 1GE port for OOB management 1x RJ45 RS232 serial console port 1x Intelligent Platform Manaement Interface (IPMI) port 2x USB3.0 ports
Memory	96GB DDR4 DRAM
Storage	1 TB SSD
Other Interfaces and Modules	
TPM	Yes
Crypto Acceleration	Intel SoC built-in Quick Assist Module
Physical Characteristics	
Unit Weight	CSG2500 : 15Kg (33 lbs)
Unit Dimensions	(W) 438mm, (H) 44 mm, (D) 550mm
PSU	2 FRU AC PSUs with 640W capacity with 1+1 redundancy – front to back airflow
Unit Power	100V – 240V
Cooling	Front to Back Cooling with 3 FRU fans with built in 2+1 redundancy
Mounting	Rack mountable unit with built-in rack mount ears to faceplate
Operational and Compliance	
Operational Temperature	0-40C (32-104 F)
Storage Temperature	-20 C to 80 C (-4 ~ 167 F)
Humidity	15-85%
MTBF	166,753 Hrs
Environmental	ROHS compliant
Regulatory	FCC (US), CE (EU), CB (IEC), UL

Warranty and Support

Versa CSG2500 series appliances include a 2-year Return to Factory (RTF) Warranty. Versa Networks offers enhanced warranty and advanced replacement options which can be ordered with the hardware. For more details please refer to the Versa CSG Appliance Ordering Guide.

Ordering Guide

Versa CSG2500 series appliances are versatile platforms providing a variety of capabilities to suit the needs of the enterprise. For more details on how to order CSG 2500 series appliances, please refer to the ordering guide.

About Versa Networks

Versa Networks, the leader in Secure SD-WAN, combines full-featured SD-WAN, complete integrated security, advanced scalable routing, genuine multi-tenancy, and sophisticated analytics to meet WAN Edge requirements for small to extremely large enterprises and Service Providers. Versa Secure SD-WAN is available on-premises, hosted through Versa-powered Service Providers, cloud-delivered, and via the simplified Versa Titan cloud service designed for Lean IT. The company has transacted hundreds of thousands of software licenses globally through its global Service Providers, partners, and enterprises. Versa Networks is privately held and funded by Sequoia Capital, Mayfield, Artis Ventures, Verizon Ventures, Comcast Ventures, Liberty Global Ventures, Princeville Global Fund and RPS Ventures. For more information, visit https://www.versa-networks.com