

# Cloud Service Gateway

## CSG2500 Series Appliance Datasheet

### Introduction

Versa Cloud Service Gateway (CSG) 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 compute 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 the 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. In addition, the appliance is built with Secure Boot capabilities.

## Scaling and Performance

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

	CSG2500
Recommended Deployment	Enterprise Branch High Performance
<b>Throughput</b>	
Routing, Stateful Firewall, CGNAT	40 Gbps
SD-WAN DIA, NGFW DIA	35 Gbps
SD-WAN site to site	27 Gbps
NGFW + SD-WAN	22 Gbps
NGFW + AV	10 Gbps
NGFW + AV + SD-WAN	9 Gbps
NGFW + IPS	8 Gbps
NGFW + IPS + SD-WAN	7 Gbps
NGFW + UTM/UTP	6 Gbps
NGFW + UTM/UTP + SD-WAN	5 Gbps

(\*) Performance and scaling numbers shared in product datasheets can vary from vendor to vendor depending on testing scenarios and testing methods utilized. Versa references real-life based scenarios for its performance testing. Furthermore, Versa's security functions run by default in high-security mode and performance numbers shared above are obtained in the same mode to provide best guidance to its customers. For details on each test scenario including running security functions in alternative mode such as higher performance mode, please contact Versa reps.

## Hardware Specifications

CSG2500	
<b>Networking Interfaces</b>	
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 Management Interface (IPMI) port 2x USB3.0 ports
Memory	96GB DDR4 DRAM
Storage	1 TB SSD
<b>Other Interfaces and Modules</b>	
TPM	Yes
Crypto Acceleration	Intel SoC built-in Quick Assist Module
<b>Physical Characteristics</b>	
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
<b>Operational and Compliance</b>	
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 SASE offers fully featured SD-WAN with integrated NGFW/UTP, ZTNA, advanced scalable routing, SD-LAN, genuine multi-tenancy, big-data based analytics and latest AI-ML technologies as part of its single stack software solution. Versa Networks is privately held and funded by Sequoia Capital, Mayfield, Artis Ventures, Verizon Ventures, Comcast Ventures, Liberty Global Ventures, and Blackrock Ventures.

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