Cloud Service Gateway

CSG300 Series Appliances Datasheet

Introduction

Versa Cloud Services Gateway (CSG) 300 series appliances are purpose-built to deliver SD-WAN, NGFW/UTM, Routing and ZTNA for small to medium size enterprise branches, kiosks, ATMs, and home offices.

Versa CSG300 series appliances run VOS™ (Versa Operating System) natively and they are managed by Versa's centralized management software Versa Concerto and Versa Director. Versa's big data based application, Versa Analytics, provides deep analytical insights view on performance, application, security events, users and more.

Versa's software defined architecture provides unified SD-WAN, routing, security and ZTNA on-premises helps migrate from legacy standalone WAN edge routers, firewalls, and NAC solutions over to Versa's software defined unified solution delivered by CSG300 series platforms, achieving superior business agility, seamless connectivity and lower TCO.

Product Description

Versa CSG300 series WAN edge appliances deliver enterprise grade reliability, with advanced routing, SD-WAN, NGFW/UTM, and on-premises ZTNA all in one appliance. Versa CSG300 series platforms offer a diverse set of wireline-based WAN connectivity options as well as connectivity options across mobile networks (ie: LTE) together with built-in WLAN access capabilities, all in one.

Each Versa CSG300 series appliance can be ordered with up to two factory-installed Advanced LTE modules to provide WAN connectivity for backup, fast deployments or for load sharing purposes. An integrated 802.11AC Access Point (AP) module is orderable on CSG355 and CSG365 platforms as a factory-installed module to provide integrated enterprise-grade WLAN coverage for the branch.

Field installable NICs expand the capabilities of CSG355 and CSG365 units further to provide up to 4 additional ports of Cu GE with POE++ to power up to 4 PoE connected devices (up to 120 Watts in total). Alternatively, 4 ports of GE SFP, 1 port of ADSL2/VDSL or 4 ports of T1-E1 can be added onto CSG355 and CSG365 units with the help of respective NICs.

Designed to be aesthetically pleasing, the CSG300 series appliances are cooled with whisper silent fans, making them suitable for deployment in small enterprise offices and home office environments. CSG355 and CSG365 units can also be deployed in a standard 19" rack with the use of rack mount ears.

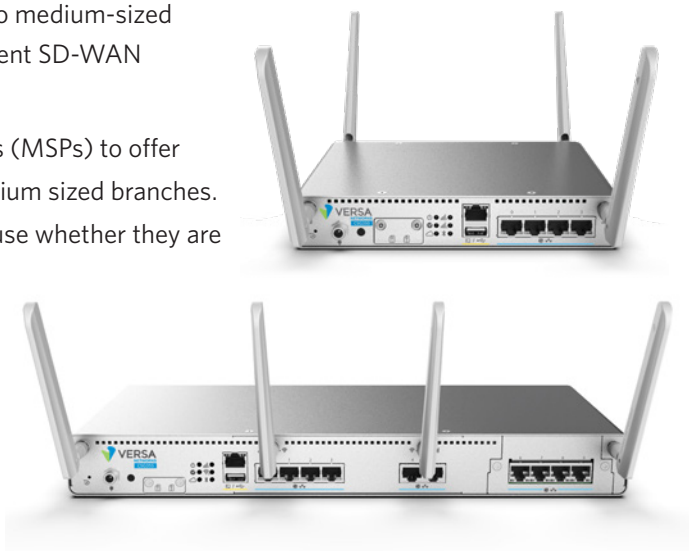
The CSG300 series appliances consists of the following base models

- CSG350 is a compact and size optimized appliance for deployment in small branches that require advanced application and cloud intelligence with hierarchical QoS, providing a cost-effective consolidated WAN Edge solution. If purchased with the upgraded memory capacity, CSG350 units can also run full stack of NGFW and UTM functions as well.
- CSG355 is a powerful appliance for deployment in both small sized branches that need advanced SD-Security (NGFW + UTM) along with built-in WLAN Access Point and additional Ethernet or non-Ethernet ports.

- CSG365 is a high-performance appliance for deployment at a small to medium-sized branch locations that require advanced application and cloud-intelligent SD-WAN services, advanced SD-Security (NGFW and UTM).

CSG300 series appliances can be deployed by managed service providers (MSPs) to offer scalable managed services and by enterprises of all sizes on small to medium sized branches. CSG300 series appliances have been elegantly designed and for ease of use whether they are deployed as a desktop unit or deployed in a rack. CSG300 appliances operate very silently to satisfy operation in environments such as small offices, home offices and alike.

CSG300 series appliances are designed to simplify operations and accessibility and to improve visibility of device operational status and health. Status and cloud LEDs provide succinct visualization of the operational status of the device and of the WLAN, and LTE connections.



CSG 300 series

Versa CSG300 Series Advantages

Versa CSG300 series appliances scale from small to medium sized enterprise branch appliances for Secure WAN Edge deployments.

Versatility and Flexibility

CSG300 series appliances are based on x86 architecture, taking advantage of the latest performance enhancements for packet processing, encryption/decryption, and compression/decompression offload to hardware to deliver efficient, high-performance experience for small branches and home offices. The innovative CSG300 series appliances are engineered to deliver scalable multi-tenant, enterprise-grade networking, and security services, such as Layer-2 bridging, routing, SD-WAN, NGFW, CGNAT, 802.1x based access control and more. Please see VOS datasheet for complete list of features that VOS offers.

Resiliency and Manageability Advantage

The CSG300 series appliances are designed for resiliency and durability to ensure business continuity and services. The CSG300 series appliances have intuitive LEDs to provide device and interface status for ease of manageability. CSG300 appliances also get managed using Versa Titan mobile app.

Security Advantage

Versa CSG300 series platform hardware has been designed with security built-into hardware. CSG300 appliances come with secure BIOS and secure boot capabilities. Integrated TPM chip ensures integrity and security of critical factory installed data.

LTE Advantage

Advanced LTE support is ubiquitously available across all CSG300 models and can be used as a primary or backup WAN connections for enterprise sites. Enterprise customers can deploy CSG300 series appliances with up to three independent LTE simultaneous connections, providing unmatched resiliency and flexibility for WAN access for the branch. Each appliance can be ordered with up to two factory-installed, enterprise grade, internal Advanced LTE modems to provide simultaneous active connectivity across two active LTE access links. Each LTE modem provides performance up to 300 Mbps downstream and up to 50 Mbps upstream. Embedded Advanced LTE modules are firmware controlled, allowing for maximum carrier flexibility and independence in global deployments.

CSG300 appliances have two externally accessible SIM card slots, each one mapping to each of embedded Advanced LTE modems. CSG300 appliances have one external USB slot that can be used to connect to an external LTE module if desired. With two internal modems and one USB attached modem, customers can deploy up to three simultaneous LTE connections. For more information on embedded LTE modules, please see respective LTE module datasheet on https://www.versa-networks.com.

WLAN Advantage

Each CSG355 and CSG365 appliances can be ordered with a factory-installed 802.11ac (Wave2) high-performance dual-radio access point module to deliver enterprise-grade WLAN Access Point based connectivity in the branch. The WLAN AP module is an 802.11 a/b/g/n/an/ac (Wave2) access point that can support up to 8 SSIDs and 255 wireless clients concurrently across both frequencies (totaling up to 16 SSIDs, 512 clients). The embedded WLAN AP module supports 2.4-GHz and 5-GHz frequency bands simultaneously (Dual Band, Dual Concurrent Access).

Versa WLAN AP module supports 2x2 MU-MIMO with beamforming capabilities with strong transmit power and is suitable for enterprise office deployments. The WLAN AP module also supports mesh and frequency-band steering capabilities and has MRC capabilities to process weak wireless signals from distant client devices, providing the best possible user experience. For more information, see the Wi-Fi Modem datasheet on https://www.versa-networks.com.

NIC options

CSG355 and CSG365 platforms support rich set of NIC options extending interface support options further.

The 4-port PoE+ Network Interface Card (NIC) optional module can provide up to a total of 120 Watts of power to four connected devices in aggregate while each port can drive up to 60 Watts. Note, a separate, dedicated PSU (power supply unit) is required for to provide the PoE power. APs, cameras, VoIP phones, and other PoE-capable devices can be powered without using AC adapters by leveraging the POE ports on the appliance.

Additional NIC options such as 4 port GE SFP NIC, ADSL2/VDSL2 NIC and T1/E1 NIC are also available. For more details, please refer to respective datasheets on https://www.versa-networks.com.

Scaling and Performance

Customers can select the correct CSG300 series appliance model based on the expected throughput and the required features for their branch deployment. The table below lists the expected throughput of each appliance model for different scenarios.

	CSG350 w/standard memory	CSG350 w/memory upgrade	CSG355	CSG365
Recommended Deployment	Small Branch	Small Branch	Small Branch	Small / Medium Branch
Throughput				
Routing, Stateful Firewall, CGNAT	1,300 Mbps	1,300 Mbps	1,300 Mbps	1,900 Mbps
SD-WAN DIA, NGFW DIA	1,100 Mbps (*)	1,100 Mbps	1,100 Mbps	1,600 Mbps
SD-WAN site to site	300 Mbps	300 Mbps	300 Mbps	500 Mbps
NGFW + SD-WAN	275 Mbps (*)	275 Mbps	275 Mbps	450 Mbps
NGFW + AV	N/A	90 Mbps	90 Mbps	190 Mbps
NGFW + AV + SD-WAN	N/A	70 Mbps	70 Mbps	140 Mbps
NGFW + IPS	N/A	65 Mbps	65 Mbps	120 Mbps
NGFW + IPS + SD-WAN	N/A	50 Mbps	50 Mbps	90 Mbps
NGFW + UTM/UTP	N/A	45 Mbps	45 Mbps	75 Mbps
NGFW + UTM/UTP + SD-WAN	N/A	40 Mbps	40 Mbps	60 Mbps

(*) Certain feature restrictions apply. Please refer to Versa documentation.

(**) 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

	CSG350	CSG355	CSG365
Networking			
Wired Interfaces	4xCu GE interfaces	6xCu interfaces + 1 NIC module slot	
Wireless Interfaces	2x internal wireless slots which can be configured with single or dual Advanced LTE modems. ZTP and Smart Phone App communications	3x internal wireless slots Configurable with up to two Advanced LTE modem options, SIM Cards externally accessible, one WLAN AP module – Simultaneous Dual Band Dual Radio, 802.11AC, 512 clients, 16 SSIDs ZTP and Smart Phone App communications	
NIC Support	N/A	See NIC Details Section	
Management	1x RJ45 RS232 console, 1x USB2.0, 1x Cu GE (via dual purpose port), via smart phone app connectivity		
Other Interfaces and Modules			
TPM	Yes		
Crypto Acceleration	Via built-in hardware accelerators		
USB	1 x USB 2.0		
Physical Characteristics			
Unit Weight	2.75 lb / 1.25 kg	4.4 lb / 2 kg	
Unit Dimensions	1.38"/35 mm (h) x 5.91" / 150 mm (w) x 7.87" / 200 mm (l)	1.65"/42 mm (h) x 6.7"/170 mm (w) x 13.8"/365 mm (l)	
PSU	External AC PSU, plus additional PSU for the PoE NIC		
Unit Power	110-240 VAC, 50-60 Hz		
Total POE Power	120 W		
Cooling	Via Fan		
Mounting	Desk Stand, Rack Mount		
Operational and Compliance			
Operational Temperature	32F to 104F (0C to 40C) @ 3,000 m altitude	Extended temperature range appliance 32F to 131F (0C to 55C) @ 3,000 m altitude	32F to 104F (0C to 40C) @ 3,000 m altitude
Storage Temperature	-20C to 70C		
Humidity	10-85%		
FCC Classification	FCC Part 15, Class A		
Environmental	ROHS		
Safety	CE Marketing		
Regulatory	FCC (US), CE (EU), CB (IEC)		

CSG300 NIC Modules

Versa Cloud Services Gateway 300 series appliances offer field-based configurability using the NIC slot. NIC slots can carry the following NICS and other additional NIC types soon, giving our customers the opportunity to further configure their platforms based on their needs.

NIC Type	NIC Options	Notes
GE	4 x Cu GE with 802.3at (POE+)	4-port Cu 802.3at (POE++) ports supporting both Type 1 and Type 2 POE devices. Each port can provide up to 60W of power, with maximum aggregate of 120W for the module, for connecting PoE devices such as cameras, access points, and VoIP handsets.
GE	4 x GE SFP ports	4-port SFP port NIC
ADSL / VDSL	1 RJ45 port ADSL / VDSL	Two separate NICs: Single port ADSL, VDSL module supporting Annex A (POTS) Single port ADSL, VDSL module supporting Annex B (ISDN)
T1/E1	4 x RJ45 port T1/E1	Single NIC supporting 4 ports of T1 or E1, supports all common formats and PPP, HDLC, Frame relay encapsulations.

Contact your Versa sales representative for more information about upcoming interface, modules, and NIC support.

Warranty and Support

Versa Cloud Services Gateway 300 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 Cloud Services Gateway Ordering Guide.

Global Certification and Support

Versa CSG300 Series platforms are globally certified units available to our customers via Versa's globally extensive distribution network. CSG300 Series platforms are backed by 2 years of warranty and additional coverage can be purchased to extend warranty period or to provide Next Business Day or Same Day 4hr advance replacement options.

Ordering Guide

Versa Cloud Services 300 series appliances are versatile platforms providing a variety of optional capabilities to suit the needs of the enterprise. The CSG ordering options provide similar flexibility to add optional hardware capabilities. When ordering CSG300 series appliance, Wi-Fi or wireline (POE+) NIC can be ordered as an add on option to be factory installed with the CSG 300 series appliance. The ordering information for the CSG 300 series appliance model with optional add-on modules is provided in the Versa Cloud Services Gateway Ordering Guide. CSG part numbers are structured logically to make the process of ordering flexible and intuitive. The Part Number for CSG 300 series consists of a base platform code (e.g. CSG 350) followed by optional Wireless modules (e.g. -W for Wi-Fi module) and/or followed by optional NIC modules (e.g. -4GP for 4 port Copper PoE+ ports). For more details on how to order CSG 300 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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