Versa LTE Module for CSG1300 and CSG1500 Platforms

Versa CSG1300 and CSG1500 series appliances can be optionally equipped with factory-installed integrated (internal) enterprise grade LTE/4G/3G modules. Versa's LTE module supports CAT12 LTE Advanced capabilities to provide a high-performance WAN link experience. LTE based WAN links can be used as either a primary link or backup link. As with the all components of Versa's portfolio and solutions, the LTE Module functionality is centrally managed and controlled by Versa Director with network and device analytics provided by Versa Analytics.

The Versa Wireless Advantage

The integrated global LTE Module is based on industry-leading and industry-proven CAT12 LTE Advanced Pro chipsets used in commercially available enterprise-grade products today. The global LTE module, when integrated with CSG1300 and CSG1500 series appliances, provides unique advantages to performance, deployment flexibility and agility. Here are some of the key highlights:

LTE-Advanced Pro Performance

The integrated LTE Module is capable of CAT 12 LTE Advanced Pro connectivity. It provides downlink performance of up to 600 Mbps and uplink performance of up to 150 Mbps. With Carrier Aggregation, LTE Advanced Pro module delivers 2x the bandwidth of LTE modems. Higher performance facilitates the use of mobile links either as a primary WAN link or as backup. Here, LTE aware VOS software also offers ways to intelligently manage traffic and probes over SD-WAN links to make most effective use mobile data plans and mobile connectivity. See more on this below.

The module supports over the air (OTA) upgrades to always ensure the latest firmware and software can be published to the device. It also supports Secure Boot for tamper protection. In deployments where LTE-A-Pro is not available, the Versa LTE Modem will auto-scale back to LTE Advanced, LTE, 4G or 3G depending on mobile network availability, wireless plan purchased and other factors.

CSG1000 Platforms with LTE Advanced Pro Modules

CSG1300 or CSG1500 series appliances can be deployed with up to 2 integrated LTE Advanced Pro modules. There are specific SKU's for the CSG1300 and CSG1500 units that to facilitate ordering units with one or more factory installed LTE modems.

In addition to the internal modems, the CSG1300 and CSG1500 can also support USB-connected LTE modems support use-case deployments that require more than 2 simultaneous LTE modems.

LTE

VOS comes with built-in capabilities to auto-recognize and auto-configure the embedded LTE module with its unique capabilities. As a SIM card is inserted and mobile network connectivity is achieved, VOS will start leveraging high performance and feature-sets of the modem for data plane, management plane and control plane connectivity purposes.

VOS manages individual LTE interfaces based on specific deployment configurations as a primary WAN interface as well as a backup WAN link that will only be activated upon failure or SLA-violation of SD-WAN traffic steering policies. Any or all features (routing, SD-WAN, Security) of VOS can be configured to leverage the LTE interfaces. Traffic policies can be used to apply fine granular traffic control to select which traffic profiles can use LTE interfaces and which cannot, and under what circumstances.

In addition to supporting fully featured services over LTE and managing traffic traversing the LTE interface, VOS also has the contextual intelligence of identifying volume and rate of data and control traffic to ensure effective utilization of LTE network resources. Examples of this intelligence and advanced control are: LTE Focused Dynamic SD-WAN Probes, Adaptive Probing capabilities and suppression.

SIM Cards Support

CSG1300 and CSG1500 appliances come equipped with 2 nano-SIM card slots, each SIM slot maps to the specific LTE module. If the unit is ordered with one LTE modem, the modem is installed and identified on internal slot #1. If the unit is ordered with two LTE modems, then both embedded mobile slots within the appliance are populated, and each SIM card slots map to each LTE slot accordingly. SIM cards are externally accessible, located behind easily identifiable SIM slot doors. SIM slot doors are designed to ensure you can easily insert or remove SIM cards while still keeping SIM cards secured.

Versa CSG1300 and CSG1500 units do not ship with SIM cards pre-installed. Customers will need to purchase to purchase SIM card(s) from an available mobile provider. Versa recommends using pre-activated SIM cards to ensure the most positive experience in deployment.

Once inserted, the SIM cards are auto detected by the platform and connects to the recognized LTE/4G/3G network. SIM cards can be hot-swapped, enabling a fast and easy transition from one mobile network provider to another. The CSG1300 and CSG1500 appliance will auto-detect the new SIM card and auto-connect to the appropriate cellular network.

Agility

The CSG1300 or CSG1500 series appliances with the installed /LTE Advanced Pro module are certified to be operated across multiple regions globally. Please refer to CSG1300 and CSG1500 hardware documentation for more details.

The Versa LTE Advanced Pro Module is firmware based preinstalled in the module. Customers can also upgrade or replace these images as necessary to address their specific network requirements.

The LTE module, when it detects a SIM card has been inserted will identify the appropriate firmware image and mobile operator settings based on the details detected from the inserted SIM..

Firmware based operation allows Versa modems to connect to mobile networks with flexibility and adopt updates if/when needed by the carrier.

Region Selection

The factory installed Versa LTE Module for the CSG1300 and CSG1500 is provided with one orderable SKUs to provide global coverage. You can see the supported mobile network and frequency band coverage by each orderable modem in the Specifications Table below.

Specifications

Bands	1	2	3	4	5	6	7	8	9	12	13	18	19	20	26	28	29	30	32	41	42	43	46	48	66
LTE	F	F	F	F	F		F	F	F	F	F	F	F	F	F	F	F	F	F	T	T	T	T	T	F
UMTS	Y	Y		Y	Y	Y		Y	Y				Y			N/A				N/A					
Peak download rate: 600 Mbps																									
Peak upload rate: 150 Mbps																									
GNSS: Galileo, Glonass, GPS, BeiDou																									

F: FDD, T: TDD, Yes

Ordering Information

Versa LTE Advanced Pro module adds Wireless WAN capability to CSG1300 and CSG1500 Series appliances. Versa LTE Advanced Pro module is available as an option when ordering CSG1300 and CSG1500 series appliances. For further details, please refer to the Versa 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.

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