At a Glance

The Versa Cloud Services Switch (CSX) 4000 series appliances are next-generation software-defined LAN (SD-LAN) edge and access layer appliances that combine an Ethernet switch chipset with an x86-based processor subsystem. CSX4000 series appliances deliver carrier-grade reliability, line-rate Ethernet switching, and built-in x86-based computational power to provide enterprise-grade routing, SD-LAN services, and integrated security.

CSX4000 series appliances run Versa Operating System™ (VOS™) software, which provides comprehensive integrated security, including the following:

- NGFW, UTM, ZTNA
- On-premises ZTNA
- Next-generation software-defined access
- Fully secure software-defined perimeter
- Application intelligence and application policy–based forwarding capabilities
- Line-rate Layer 2 and Layer 3 forwarding and switching
- Scalable advanced routing
- Genuine multitenancy
- Big-data–based analytics

The CSX4000 series appliances with VOS software are ideal for enterprise branch and campus LAN edge deployments, offering natively built-in security and connectivity capabilities. The appliances enable secure, scalable, and reliable enterprise-wide LAN networking solutions.

Versa Networks management and control software, including Versa Director and Versa Analytics, support CSX4000 series appliances. Versa Director supports configuration, monitoring, and provisioning of CSX4000 series appliances, and Versa Analytics provides device, network, and security analytics. Managed service providers (MSPs) and enterprises of all sizes can deploy CSX4000 series appliances for scalable managed services.

CSX4000 series appliances deliver carrier-grade reliability, high performance, line-rate switching, and high computational capacity for enterprise-grade routing, SD-WAN, next-generation security, and uCPE scenarios. They are designed for deployment in large enterprise branches, campus sites, and data centers that require advanced secure SD-WAN along with comprehensive advanced application and cloud-intelligent SD-WAN services on-premises.

CSX4000 series appliances offer LAN edge or access and high-speed uplink ports to provide nonblocking, high-performance LAN solutions. CSX4000 switching ports are highly scalable, and the Ethernet switch chipset provides single-rate Gigabit Ethernet and multirate Gigabit Ethernet ports with built-in Power over Ethernet ++ (PoE++)

capabilities. CSX4000 LAN edge Ethernet switches offer 25/10 Gigabit Ethernet and 100 Gigabit Ethernet to provide high-speed connectivity to other network elements in the LAN environment.

CSX4000 series appliances have x86 processor computational capacity and high-capacity memory and storage that allow you to run VOS stateful functions in highly scalable forms. You can use the built-in computational capacity to host third-party virtual machines (VMs) and simplify network deployments, thus eliminating the need for consolidating multiple appliances and functions, such as additional compute blades, other standalone hardware platforms, and separate firewalls.

CSX4000 series appliances integrate a TPM chip with cryptographic acceleration to ensure the integrity and security of data, such as encryption and authentication keys. CSX4000 series appliances have a secure BIOS and secure boot capabilities.

CSX4000 series appliances provide the following features:

- Networking interfaces
  - Ethernet switching for CSX4300
    - 48 1-Gigabit Ethernet PoE++ (90 W) ports for LAN edge/access interfaces
    - Four SFP28 25/10-Gigabit Ethernet ports for switch interfaces
    - Two QSFP28 100-Gigabit Ethernet ports for switch interfaces
  - Ethernet switching for CSX4500
    - 12 PoE++ (90 W) 10/5/2.5/1-Gigabit Ethernet ports for LAN edge/access interfaces
    - 36 PoE++ (90 W) 2.5/1-Gigabit Ethernet ports for LAN edge/access interfaces
    - Four SFP28 25/10-Gigabit Ethernet ports for switch interfaces
    - Two QSFP28 100-Gigabit Ethernet ports for switch interfaces
- Management interfaces
  - One Gigabit Ethernet-over-copper dedicated management port
  - One RJ45 RS232 console port
- Two USB ports for plugging in external LTE or WiFi modems
- PoE source support on four Ethernet ports
- Two built-in wireless slots
- GPS connector for geographical location
- Internal hot-swappable AC power supply
- Fan for cooling
- Fixed chassis with no field-replaceable parts
- Desktop mount or rack-mountable in a 19-inch rack

CSX4000 Appliance Models

The CSX4000 series appliances are available in the following models:

- CSX4300—Powerful appliance for deployment in large enterprise branch or campus sites for networks that require advanced switching and routing, secure SD-WAN, and comprehensive application and cloud-intelligent SD-WAN services on-premises. The CSX4300 appliance has 64 GB of SSD storage.

- CSX4500—Higher-performance appliance for deployment in large enterprise branch, campus, or data center locations for networks that require advanced switching and routing, secure SD-WAN, and comprehensive advanced application and cloud-intelligent SD-WAN services on-premises. The CSX4500 appliance has 128 GB of SSD storage.

Chassis Views

The CSX4300 and CSX4500 series appliances are physically identical. The front panel is the side of the appliance with LEDs for status and power, a soft reset button, and ports. It also has integrated rack-mount ears for installation in standard 19-inch racks. This is the side that is visible when you install the appliance in an office environment. The rear panel has the hot-swappable power supply units, ground contact, and cooling fans. This is the rear side when you mount the appliance in a 19-inch rack.