
Versa CSM64 Series

At a Glance

CSM64 series platform enables PoE powered, high performance 5G WAN connectivity for enterprises connected with Versa secure SD-WAN and provides performance, deployment flexibility, and agility. The platform supports FR1/sub-6 class standalone (SA) mode and non-standalone (NSA) mode 5G based high performance connectivity to facilitate high performance deployments.

The CSM64 series platform is managed by Versa Orchestrator suite which provides unified management, big-data based data analytics, and detailed visibility portal across entire Versa solutions. CSM64 provides the required connectivity to bootstrap the VOS device and the zero touch provisioning process of the VOS appliance.

The CSM64 series platform is powered by Power over Ethernet (PoE) with selected CSG series appliances and CSG NICs. The CSM64 appliance can connect to the PoE-enabled CSG appliance with standard Ethernet cable consuming power from the network appliance and does not need any alternative power source. Alternatively, other PoE sources such as PoE Ethernet switch and a PoE injector can also be used to connect to CSM64 series appliance. You can connect the CSM64 series appliance to a VOS appliance for WAN connectivity and also depending on the network topology and power requirements, you can connect a CSM64 series appliance to the switch infrastructure.

The Kensington security lock on the left-side panel of a CSM64 series appliance is a small metal-enforced hole for attaching a Kensington lock to secure the appliance.

Table 1 lists the functions and features that CSM64 appliances provide:

Table 1: Functions and Features

Function	Features
RF	◦ 3G/4G ◦ 5G mm W supports TDD and 64 QAM for UL/DL ◦ 5G sub-6 GHz supports 256 QAM for UL/DL
SIM card slot	◦ Dual nano SIM card holder

Function	Features
Application processor (embedded M.2 module)	◦ 32 bit ARM Cortex-A7 up to 1.5 GHz running the Linux Operating System ◦ 4-Gigabit NAND Flash + 4-Gigabit LPDDR4 MCP
Ethernet	◦ 100/1000/2500G Base-T ◦ One RJ-45 Power over Ethernet (PoE) port
Power	◦ 802.3at PoE+ ◦ 12v DC-Jack power adapter
USB	◦ USB 3.1 Gen2 10-Gbps ◦ One Type C port
RESET	◦ Remote reset capability
LED	◦ RJ-45 integrated link and activity LED. ◦ System power LED ◦ Software-driven system status LED ◦ Software-driven cloud LED

The CSM64 series appliances with the installed 5G module are certified to be operated across different geo-regions. These appliances are firmware-based smart modems that allow updates to cover patches, introduce new features, and adopt to changes in carrier network deployments. Versa's embedded 5G module supports in-device (ie: CLI or GUI driven) or over the air (OTA) upgrades to facilitate easy firmware updates. Firmware-based operation allows Versa modems to connect to 5G, LTE-A Pro, LTE-A, LTE, 4G networks with flexibility.

Versa's 5G module also supports security features such as Secure Boot for anti-tamper protection.

Chassis Views

Figure 1, Figure 2, and Figure 3 show the front, rear and left-side panels of a CSM64 series appliance.

Figure 1: Front Panel of CSM64 Series Appliance

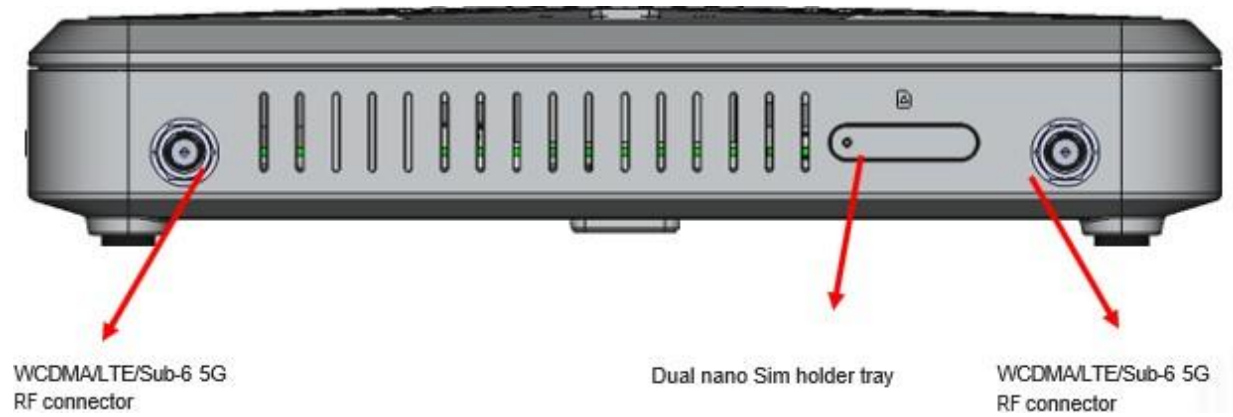


Figure 2: Rear Panel of CSM64 Series Appliance

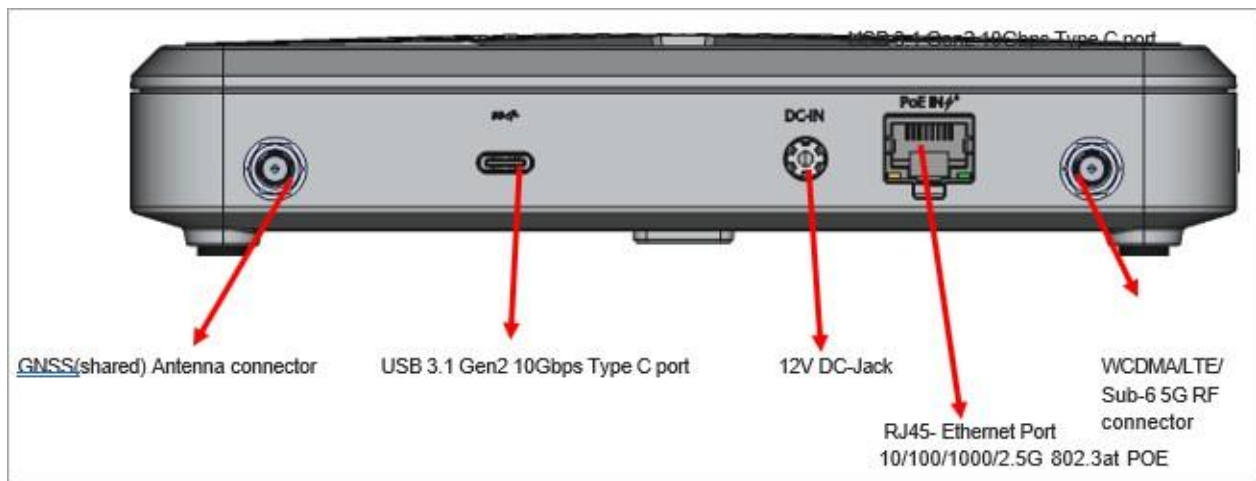
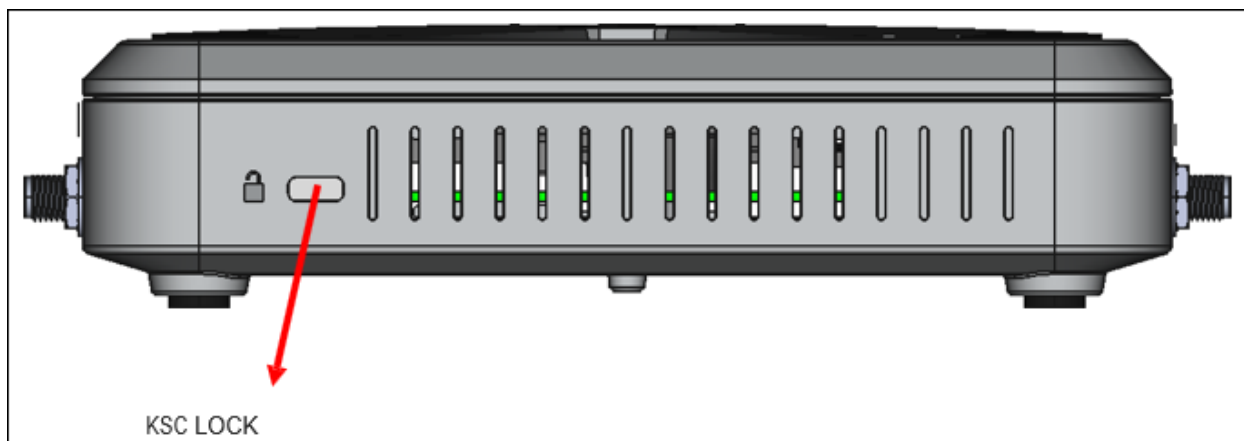


Figure 3: Left-side Panel of CSM64 Series Appliance



LED Status

Table 2 lists the LEDs, their colors and states, and the status they indicate.

Table 2: LED Status in a CSM64 Series Appliance

LED	Color	Status
Power	Green	• Off—Appliance is not powered on. • Green—Appliance is powered on.
Status	Green, Red	• Off—The modem is booting up. • Solid green—System connection is up and running, This indicates that LTE and cloud connectivity are up, and Ethernet or USB is connected. • Blinking green—After the modem boots it blinks the green LED one time per second and the connection is in the process of being established. • Solid red—Indicates system error such as LTE or cloud connection is interrupted. • Blinking red—Indicates the temperature is within 5C° of thermal limits (-30°C+45°C)
Cloud	Green, Red	• Off—The device is not attached to the network. • Solid green—The connection is established. • Blinking green—The device is attached to the network and establishing a connection with the device. • Solid red— • Blinking red—Indicates, there is a certificate mismatch, or invalid

LED	Color	Status
		certificate.
LTE/5G	White	• Off—LTE/5G module not installed or not connected. • Blinking white—When the LTE/5G module is ON and attempt to attach to the network, the white LED blinks one time per two seconds. • Blinking white—When the device fails to attach to the network or a SIM card is not present, the white LED blinks one time per one second. • Solid white—The module is attached to the network.

SIM Card Slots

The CSM64 series appliance has two externally accessible nano-SIM card slots, while only one SIM card is active and connected. If you insert SIM cards in SIM1 and SIM2, administrators can configure the SIM slot which is to be used to connect to the mobile network. The SIM card chosen for 5G connection can be switched dynamically based on pre-defined criteria. Versa recommends that you use only preactivated 5G SIMs in the SIM card slots. After you insert the SIM cards, SIM cards are auto detected by the platform and platform connects to the recognized 5G (or LTE-A Pro/LTE-A/ LTE/4G) network.

CSM64 Series Appliance Specifications

Table 3 lists the chassis specifications and mobile frequency band coverage specifications for a CSM64 series chassis.

Table 3: CSM64 Series Chassis Specifications

Item	Specifications
Wired interface	One RJ45 management port 10/100/1000/2500 NBASE-T
USB	USB 3.0 Type-A
Modem	Sub-6 FR1 (3GPP Release 15) with CAT-20/CAT-18

Item	Specifications
	LTE-A Pro, HSPA+ support
5G category	Sub-6, FR1 120 MHz, 2CC CA DL
5G bands (NSA & SA)	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n71, n75, n76, n77, n78, n79
LTE category	CAT20
LTE cands (FDD & TDD combined)	B1, B2(B25), B3, B4(B66), B26(B5, B18, B19), B7, B8, B12(B17), B13, B14, B20, B28, B29(DL), B30, B32(DL), B34, B38, B39, B40, B41, B42, B43, B46(LAA), B48(CBRS), B66, B71
UMTS/WCDMA bands	B1, B2, B3, B4, B5, B6, B8, B19
5G maximum speed	5G FR1 NSA DL: 3.4 Gbps, UL: 460 Mbps 5G FR1 SA: DL: 2.5 Gbps, UL: 900 Mbps
Antenna	4 x 4 MIMO
Global positioning	GNSS support
Tx power	Up to 26 dBm 23 dBm (power class 3) 26 dBm (power class 2) in B41/n41
Power supply unit (optional)	Mid span PoE injector
PoE input	PoE class 0 mid span PoE injector
Mechanical Specifications	
Length	180 mm (+/- 0.15 mm tolerance)
Width	140 mm (+/- 0.15 mm tolerance)
Thickness	36 mm (+/- 0.15 mm tolerance)
Weight	TBD
Cooling	Convection Cooled
Mounting	Wall mount, desktop, and shelf placement options
Operating temperature	-5 to 40 ⁰ C
Storage temperature	-40 to 80 ⁰ C

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Item	Specifications
FCC classification	FCC Class B

CSM64 Appliance SKUs

The following are two different SKUs in terms of accessories and packaging of CSM64 appliance:

- USB SKU
 - Four 5G/LTE antennas
 - 1-meter USB cable
 - 12V DC power supply or PoE injector
 - Ceiling mount bracket
- Ethernet SKU
 - Four 5G/LTE antennas
 - Ceiling mount bracket

Power Supply Requirements

The CMS64 series appliances are powered using a 12V 1. A DC adapter or a PoE injector. The appliance supports 802.3 at PoE+ (30 W). Table 4 shows the power consumption in various operation modes.

Table 4: Power Consumption in Various Operation Modes

Mode	Average	Description
Idle Mode		
CFUN=1	35mA	• No call connection • USB is connected to a host
Airplane Mode		
CFUN=4	< 3mA	• Tx and Rx are disabled; the module is not registered on the network (Airplane mode) • USB is disconnected
Operative Mode (WCDMA)		

Mode	Average	Description
WCDMA voice	850mA	WCDMA B1 voice call (Tx=23dBm)
WCDMA HSPA	650mA	WCDMA data call (DC-HSDPA up to 42Mbps, Max through-put)
Operative Mode (LTE)		
Single-mode (1DL/1UL SISO)	1000mA	Non-CA, B3 BW 10MHz, 1 RB, 23dBm, QPSK DL / QPSK UL
7DLCA (4x4,2x2MIMO) with1UL(SISO)	1450mA	CA_1A-3C-7C-20A-38A, Full RB, 256QAM DL/ 256QAM UL (1500Mbps DL / 103Mbps UL)
5DLCA (4x4MIMO) with1UL(SISO)	1150mA	CA_1A-3C-7C, Full RB, 256QAM DL/ 256QAM UL (2Gbps DL / 103Mbps UL)
Operative NSA Mode (NR-FR1)		
1CC+1FR1	900 mA	EN-DC_1A (1DL/UL SISO) -n78A (1DL/1UL SISO) LTE: BW 20MHz, 1 RB, QPSK DL / QPSK UL, 23dBm FR1: BW 100MHz, Inner RB 137(Number)@64(Position), QPSK DL / QPSK UL, 23 dBm
6CC+1FR1	2000mA	EN-DC_1A (DL2x2/1UL SISO) -3C (DL4x4) -7C (DL4x4) -28A (DL2x2) - n78A (1DL 4x4MIMO/1UL SISO/ 60M) LTE: BW 20MHz, Full RB, 256QAM DL / 256QAM UL (2Gbps DL / 103Mbps UL) FR1: BW100MHz, Full RB, 256QAM DL / 256QAM UL (1.6Gbps DL/118Mbps)

Mode	Average	Description
Operative SA Mode (NR-FR1)		
1FR1	380mA	FR1(n78A): BW100MHz, Full RB, 256QAM DL / 256QAM UL (1.89Gbps DL/1.25Mbps)
2FR1	730mA	FR1(CA_n78A_n78A): BW200MHz, Full RB, 256QAM DL / 256QAM UL (3.8Gbps DL/1.25Mbps)
PC2 mode Max power	600mA (Typ.) 2400mA (Peak)	FR1(n41): UL-MIMO, CP-OFDM, QPSK, BW100MHz, Inner Full RB / CP- OFDM, QPSK, DL 4x4 MIMO
PC1.5 mode Max power	700mA (Typ.) 2600mA (Peak)	FR1(n41): UL-MIMO, CP-OFDM, QPSK, BW100MHz, Inner Full RB / CP- OFDM, QPSK, DL 4x4 MIMO
PC3 / PC2 / PC1.5 mode UL Max T-put	900mA (Typ.) 1200mA (Peak)	FR1(n41): UL-MIMO, CP-OFDM, 256QAM, BW100MHz, Outer Full RB, Close loop (10dBm), UL (0.9Gbps)

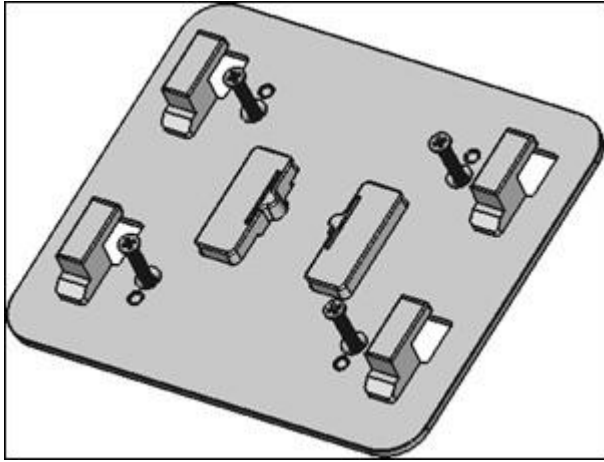
Installation Guidelines

You can install the CSM64 series appliance within the site for better signal availability within limitation of Ethernet distances. Typical deployment preference for CSM64 is closer to windows facing signal reception path and façade.

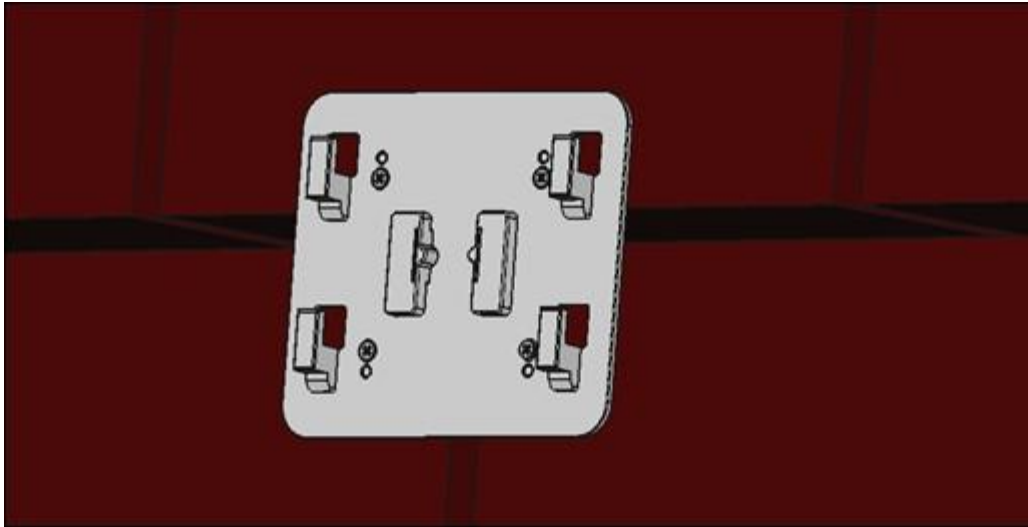
You can mount a CSM64 appliance on a wall or ceiling using the ceiling mount accessories shipped with CSM64 appliance. To mount on a wall or ceiling, use four M3 screws. You can also keep the CSM64 appliance on a desk.

To mount a CSM64 appliance on a wall or ceiling and to connect:

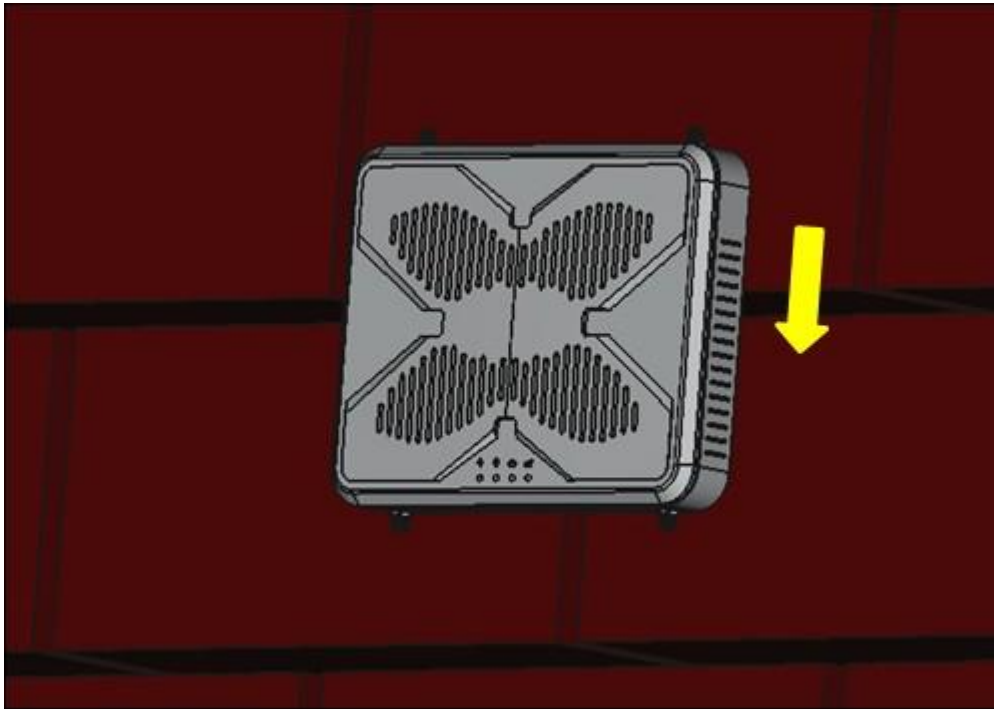
1. Attach the wall or ceiling mount accessory to the wall/ceiling using the four M3 screws that are shipped with the appliance. Do not overtighten the screws.



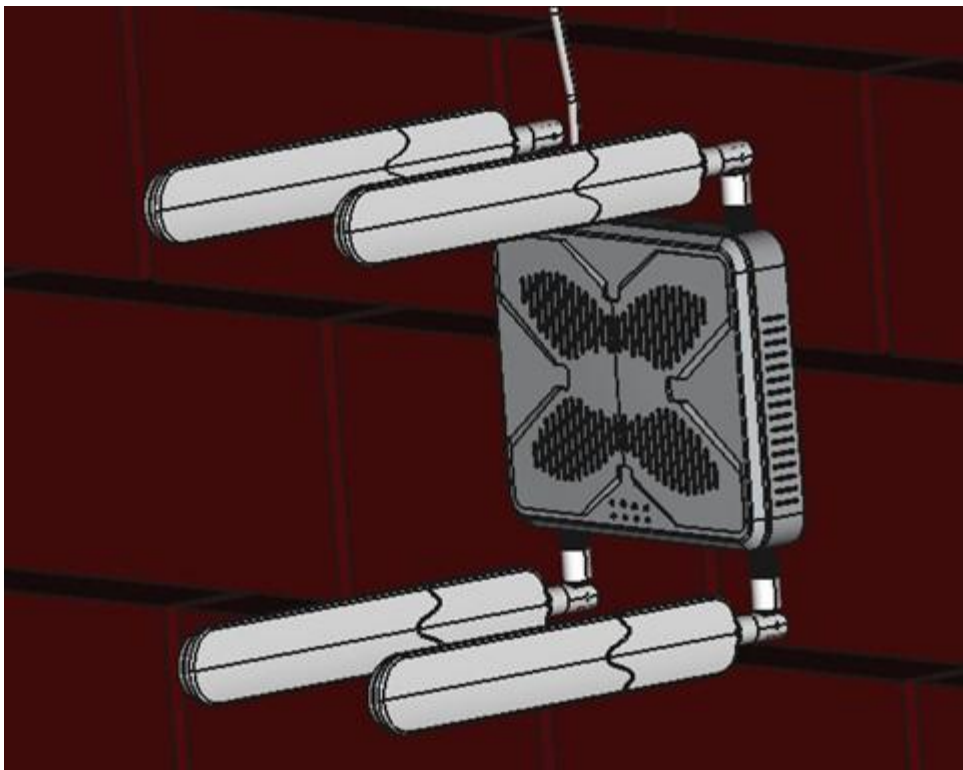
2. Apply the mount accessory to the wall or ceiling.



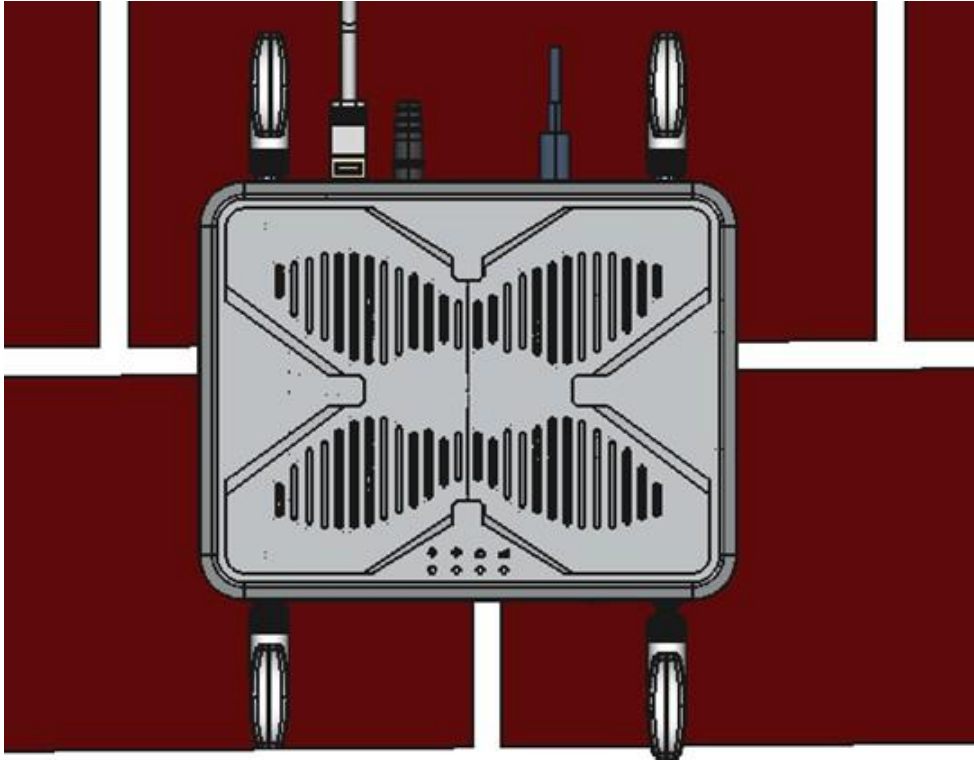
3. Attach the CSM64 appliance to the wall/ceiling mount using the provided hooks and gently press down to complete the pairing procedure. A mechanical click sound will aware you about correct coupling of the appliance to the mount accessory.



4. Install the antennas and Ethernet cable for PoE injector to a router switch/PoE.



Or use the 12V DC adapter and the Ethernet cable to provide connectivity to other equipment.



After mounting and connecting the CSM64 appliance, you can check the operation and status of the appliance. See [LED Status](#) section.

FCC Regulatory Notices

Interference Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

Modification Statement

Versa Networks has not approved any changes or modifications to this device by user. Any changes or modifications could void the user's authority to operate the equipment.

FCC Class B Digital Device Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of

the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Supplier’s Declaration of Conformity:

- Product Name: Cloud Services Modem
- Model No.: CSM64
- Company Name: Versa Networks
- Address: 2550 GREAT AMERICA WAY SUITE 350 SANTA CLARA, CA 95054
- Contact Name: Rahul Vaidya
- Contact Phone Number: (408)385-7660

FCC Antenna Information

This radio transmitter has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Table 5: Maximum Antenna Gain for FCC in dBi

Frequency Band	Frequency (MHz)	CSM64
WCDMA Band 2	1850-1910 (UL), 1930-1990 (DL)	3.08
WCDMA Band 4	1710-1755 (UL), 2110-2155 (DL)	3.34
WCDMA Band 5	824-849 (UL), 869-894 (DL)	2.28
LTE Band 2	1850-1910 (UL), 1930-1990 (DL)	3.08
LTE Band 4	1710-1755 (UL), 2110-2155 (DL)	3.34

LTE Band 5	824-849 (UL), 869-894 (DL)	2.28
LTE Band 7	2500-2570 (UL), 2620-2690 (DL)	3.4

Frequency Band	Frequency (MHz)	CSM64
LTE Band 12	699-716 (UL), 729-746 (DL)	3.04
LTE Band 13	777-787 (UL), 746-756 (DL)	2.99
LTE Band 14	788-798 (UL), 758-768 (DL)	2.2
LTE Band 17	704-716 (UL), 734-746 (DL)	3.04
LTE Band 25	1850-1915 (UL), 1930-1995 (DL)	3.08
LTE Band 26	814-849 (UL), 859-894 (DL)	2.28
LTE Band 30	2305-2315 (UL), 2350-2360 (DL)	0.94
LTE Band 38	2570-2620 (TDD)	3.33
LTE Band 41	2496-2690 (TDD)	3.61
LTE Band 42	3400-3600 (TDD)	0.44
LTE Band 43	3600-3800 (TDD)	0.42
LTE Band 48	3550-3700 (TDD)	0.44
LTE Band 66	1710-1780 (UL), 2110-2200 (DL)	3.34
LTE Band 71	663-698 (UL), 617-652 (DL)	2.8
5G NR n2	1850-1910 (UL), 1930-1990 (DL)	3.08
5G NR n5	824-849 (UL), 869-894 (DL)	2.28
5G NR n7	2500-2570 (UL), 2620-2690 (DL)	3.4
5G NR n12	699-716 (UL), 729-746 (DL)	3.04
5G NR n13	777-787 (UL), 746-756 (DL)	2.99
5G NR n14	788-798 (UL), 758-768 (DL)	2.2
5G NR n25	1850-1915 (UL), 1930-1955 (DL)	3.08
5G NR n26	814-849 (UL), 859-894 (DL)	2.28

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5G NR n30	2305-2315 (UL,) 2350-2360 (DL)	0.94
5G NR n38	2570-2620 (TDD)	3.33

Frequency Band	Frequency (MHz)	CSM64
5G NR n41	2496-2690 (TDD)	3.61
5G NR n48	3550-3700 (TDD)	0.44
5G NR n66	1710-1780 (UL,) 2110-2200 (DL)	3.34
5G NR n71	633-698 (UL,) 617-652 (DL)	2.8
5G NR n77	3300-4200 (TDD)	2.28
5G NR n78	3300-3800 (TDD)	1.19

Radio Frequency Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

IC Regulatory Notices

Interference Statement/Déclaration d'interférence

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage.
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Antenna Information

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This radio transmitter has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Innovation, Sciences et Développement économique Canada a approuvé l'utilisation de ce transmetteur radio avec les types d'antenne énumérés ci-dessous, le gain maximal admissible étant indiqué. Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximal indiqué pour tout type listé sont strictement interdits pour une utilisation avec cet appareil.

Table 6: Maximum Antenna Gain for IC in dBi/Gain d'antenne max pour ISED en dBi

Frequency Band	Frequency (MHz)	CSM64
WCDMA Band 2	1850-1910 (UL), 1930-1990 (DL)	3.08
WCDMA Band 4	1710-1755 (UL), 2110-2155 (DL)	3.34
WCDMA Band 5	824-849 (UL), 869-894 (DL)	2.28
LTE Band 2	1850-1910 (UL), 1930-1990 (DL)	3.08
LTE Band 4	1710-1755 (UL), 2110-2155 (DL)	3.34
LTE Band 5	824-849 (UL), 869-894 (DL)	2.28
LTE Band 7	2500-2570 (UL), 2620-2690 (DL)	3.4
LTE Band 12	699-716 (UL), 729-746 (DL)	3.04
LTE Band 13	777-787 (UL), 746-756 (DL)	2.99
LTE Band 14	788-798 (UL), 758-768 (DL)	2.2
LTE Band 17	704-716 (UL), 734-746 (DL)	3.04
LTE Band 25	1850-1915 (UL), 1930-1995 (DL)	3.08
LTE Band 26	814-849 (UL), 859-894 (DL)	2.28
LTE Band 30	2305-2315 (UL), 2350-2360 (DL)	0.94
LTE Band 38	2570-2620 (TDD)	3.33
LTE Band 41	2496-2690 (TDD)	3.61
LTE Band 42	3400-3600 (TDD)	0.44
LTE Band 43	3600-3800 (TDD)	0.42
LTE Band 48	3550-3700 (TDD)	0.44
LTE Band 66	1710-1780 (UL), 2110-2200 (DL)	3.34

Frequency Band	Frequency (MHz)	CSM64
LTE Band 71	663-698 (UL), 617-652 (DL)	2.8
5G NR n2	1850-1910 (UL), 1930-1990 (DL)	3.08
5G NR n5	824-849 (UL), 869-894 (DL)	2.28
5G NR n7	2500-2570 (UL), 2620-2690 (DL)	3.4
5G NR n12	699-716 (UL), 729-746 (DL)	3.04
5G NR n13	777-787 (UL), 746-756 (DL)	2.99
5G NR n14	788-798 (UL), 758-768 (DL)	2.2
5G NR n25	1850-1915 (UL), 1930-1955 (DL)	3.08
5G NR n26	814-849 (UL), 859-894 (DL)	2.28
5G NR n30	2305-2315 (UL,) 2350-2360 (DL)	0.94
5G NR n38	2570-2620 (TDD)	3.33
5G NR n41	2496-2690 (TDD)	3.61
5G NR n48	3550-3700 (TDD)	0.44
5G NR n66	1710-1780 (UL,) 2110-2200 (DL)	3.34
5G NR n71	633-698 (UL,) 617-652 (DL)	2.8
5G NR n77	3300-4200 (TDD)	2.28
5G NR n78	3300-3800 (TDD)	1.19

Radio Frequency Exposure Information/Informations d'exposition RF

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

This equipment must be installed and operated with minimum distance of 20 cm between the radiator & your body.

Cet appareil a été testé et répond aux limites applicables en matière d'exposition aux radiofréquences (RF).

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

EU RED Regulatory Notices

EU Declaration of Conformity

Following the above Approval Compliance Summary table, where applicable (green dot), hereby, Versa Networks declares that the equipment complies with Directive 2014/53/EU.

The full text of the EU Declaration of Conformity is available in the following statement:

EU Declaration of Conformity

Manufacturer:

Name: Versa Networks

Address: 2550 GREAT AMERICA WAY SUITE 350 SANTA CLARA, CA 95054

Radio Equipment:

Model: CSM64

Description: Cloud Services Modem

We, **Versa Networks**, declare under our sole responsibility that the product described above is in conformity with the relevant Union harmonization legislations:

RE Directive (2014/53/EU), RoHS Directive (2011/65/EU)

The following harmonized standards and/or other relevant standards/regulations have been applied:

1. Health and Safety (Article 3.1(a) of the RE Directive)

- EN IEC 62311:2020, EN 50665:2017
- EN IEC 62368-1:2020/A11:2020

2. Electromagnetic compatibility (Article 3.1 (b) of the RE Directive)

- EN 301 489-1 V2.2.3
- EN 301 489-19 V2.2.1
- EN 301 489-52 V1.3.1
- EN 55032 : 2015 + A1:2020 Class B
- EN 55032 : 2015 + A11:2020 Class B
- EN 55035 : 2017
- EN 55035 : 2017 + A11:2020
- EN 61000-3-2 : 2014 Class A
- EN IEC 61000-3-2 : 2019 + A2:2024 Class A
- EN 61000-3-3 : 2013
- EN 61000-3-3 : 2013 + A2 : 2021 + AC: 2022-01

3. Radio frequency spectrum usage (Article 3.2 of the RE Directive)

- EN 301 908-1 V15.2.1
- EN 301 908-2 V13.1.1
- EN 301 908-13 V13.2.1
- Draft EN 301 908-25 V15.1.1_0.0.17
- EN 303 413 V1.2.1

4. RoHS Directive (2011/65/EU)

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- EN IEC 63000:2018

The conformity assessment procedure detailed in Annex III of the Radio Equipment Directive 2014/53/EU (RED) has been carried out by Notified Body (Name: **TIMCO Engineering, Inc.**, ID: **1177**), and has assessed compliance with Article 3.1(a), 3.1(b), 3.2 of the RED and issued the EU Type Examination Certificate (Ref. No.: E1177-255530).

Signed for and on behalf of: Versa Networks

Place: 2550 GREAT AMERICA WAY SUITE 350 SANTA CLARA, CA 95054, **Date:** June 6, 2025

Name: Rahul Vaidya,

Function: Director, Product Management,

Signature:

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated to ensure a minimum of 20 cm spacing to any person at all times.

WEEE Info

The symbol below means that accordingly to local laws and regulations your product and/or its batter shall be disposed of separately from household waste.

When this product reaches its end of life, take it to a collection point designed by local authorities. Proper recycling of your product will protect human health and the environment.



RED Antennas

This radio transmitter has been approved under RED to operate with the antenna types listed below with the maximum permissible gain indicated. The usage of a different antenna in the final hosting device may need a new assessment of host conformity to RED.

RED Antenna Type

Model	Antenna Type
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CSM64	TAOGLAS TG.31.8113 Omnidirectional SMA Male Hinged 90°
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Antenna GAIN

ANT Gain for RED (dBi)			
Mode	Band	Maximum Average power (dBm)	Frequency (MHz) UL/DW
WCDMA	Band 1	25	1920 – 1980 / 2110 – 2170
WCDMA	Band 8	25	880 – 915 / 925 – 960
LTE	Band 1	24	1920 – 1980 / 2110 – 2170
LTE	Band 3	24	1710 – 1785 / 1805 – 1880
LTE	Band 7	24	2500 – 2570 / 2620 – 2690
LTE	Band 8	24	880 – 915 / 925 – 960
LTE	Band 20	24	832 – 862 / 791 – 821
LTE	Band 28	24	703 – 748 / 758 – 803
LTE	Band 34	24	2010 – 2025
LTE	Band 38	24	2570 – 2620
ANT Gain for RED (dBi)			
LTE	Band 40	24	2300 – 2400
LTE	Band 41	27	2496 – 2690
LTE	Band 42	24	3400 – 3600
LTE	Band 43	24	3600 – 3800
5G	n1	24	1920 – 1980 / 2110 – 2170
5G	n3	24	1710 – 1785 / 1805 – 1880
5G	n7	24	2500 – 2570 / 2620 – 2690
5G	n8	24	880 – 915 / 925 – 960
5G	n20	24	832 – 862 / 791 – 821
5G	n28	24	703 – 748 / 758 – 803
5G	n38	24	2570 – 2620
5G	n40	24	2300 – 2400
5G	n41	27	2496 – 2690
5G	n77	27	3300 – 4200
5G	n78	27	3300 – 3800

UKCA Declaration of Conformity

Following the above Approval Compliance Summary table, where applicable (green dot), hereby, Versa Networks declares that the equipment complies with the Radio Equipment Regulations 2017 for UKCA.

The full text of the UKCA declaration of conformity is available in the following statement:

UK Declaration of Conformity

Manufacturer:

Name: Versa Networks

Address: 2550 GREAT AMERICA WAY SUITE 350 SANTA CLARA, CA 95054

Radio Equipment:

Model: CSM64

Description: Cloud Services Modem

We, **Versa Networks**, declare under our sole responsibility that the product described above is in conformity with the relevant UK harmonization legislations:

S.I. 2017 No. 1206 Radio Equipment Regulations 2017, S.I. 2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The following harmonized standards and/or other relevant standards/regulations have been applied:

1. Health and Safety (2017 No. 1206 Regulation 6.1a)

- EN IEC 62311:2020, EN 50665:2017
- EN IEC 62368-1:2020/A11:2020

2. Electromagnetic compatibility (2017 No. 1206 Regulation 6.1b)

- EN 301 489-1 V2.2.3
- EN 301 489-19 V2.2.1
- EN 301 489-52 V1.3.1
- EN 55032 : 2015 + A1:2020 Class B
- EN 55032 : 2015 + A11:2020 Class B
- EN 55035 : 2017
- EN 55035 : 2017 + A11:2020
- EN 61000-3-2 : 2014 Class A
- EN IEC 61000-3-2 : 2019 + A2:2024 Class A
- EN 61000-3-3 : 2013
- EN 61000-3-3 : 2013 + A2 : 2021 + AC: 2022-01

3. Radio frequency spectrum usage (2017 No. 1206 Regulation 6.2)

- EN 301 908-1 V15.2.1
- EN 301 908-2 V13.1.1
- EN 301 908-13 V13.2.1
- Draft EN 301 908-25 V15.1.1_0.0.17
- EN 303 413 V1.2.1

4. The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

- EN IEC 63000:2018

The conformity assessment procedure detailed in Schedule 3 of the Radio Equipment Regulations 2017 (RER) has been carried out by Approved Body (Name: **TIMCO Engineering, Inc.**, ID: **1177**), and has assessed compliance with Regulation 6(1)a, 6(1)b, 6(2) of the RER and issued the UK Type Examination Certificate (Ref. No.: U1177-252917).

Signed for and on behalf of: Versa Networks

Place: 2550 GREAT AMERICA WAY SUITE 350 SANTA CLARA, CA 95054, **Date:** June 6, 2025

Name: Rahul Vaidya, **Function:** Director, Product Management,

The UKCA requirements can be found here: <https://www.gov.uk/guidance/using-the-ukca-marking>

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated to ensure a minimum of 20 cm spacing to any person at all times.

WEEE Info

The symbol below means that accordingly to local laws and regulations your product and/or its batter shall be disposed of separately from household waste.

When this product reaches its end of life, take it to a collection point designed by local authorities. Proper recycling of your product will protect human health and the environment

