

VPC-A31-01

Slot-in PC Module User Guide



IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic® Corporation, which is also found on our web site at <http://www.viewsonic.com> in English, or in specific languages using the Regional selection box of our website.

Model No. VS19699
P/N: VPC-A31-01

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

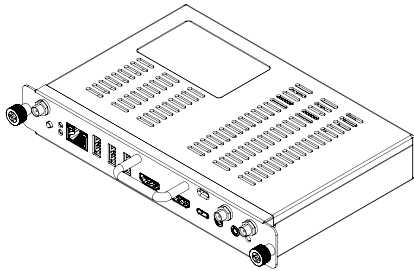
Once again, thank you for choosing ViewSonic®!

Contents

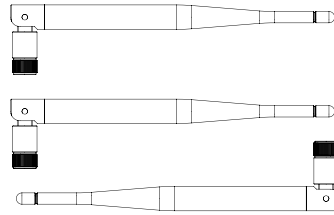
Introduction	4
Package Contents	4
Product Overview	5
Initial Setup.....	6
Installing the VPC-A31-O1	6
Making Connections.....	7
Network Connection.....	7
USB Connection.....	7
Using the Device.....	8
Selecting an Input Source	8
IFP Series	8
CDE Series.....	9
IFPG1 Series.....	9
Appendix.....	10
Specifications.....	10
Regulatory and Service Information	12
Compliance Information.....	12
FCC Compliance Statement.....	12
FCC Radiation Exposure Statement.....	12
Industry Canada Statement.....	13
Restrictions In the 5 GHz Band.....	13
Restrictions Dans La Bande De 5 GHz.....	13
Antenna Info	14
RF Exposure.....	14
Country Code Statement.....	14
IC Radiation Exposure Statement.....	14
CE Conformity for European Countries.....	15
Para su uso en México.....	15
Declaration of RoHS2 Compliance.....	16
Indian Restriction of Hazardous Substances	17
Product Disposal at End of Product Life	17
Copyright Information	18
Customer Service	19

Introduction

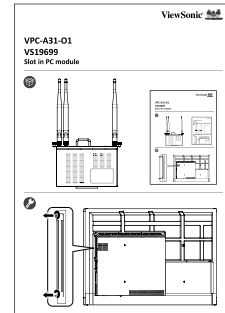
Package Contents



VPC-A31-O1
(with screw x 2)



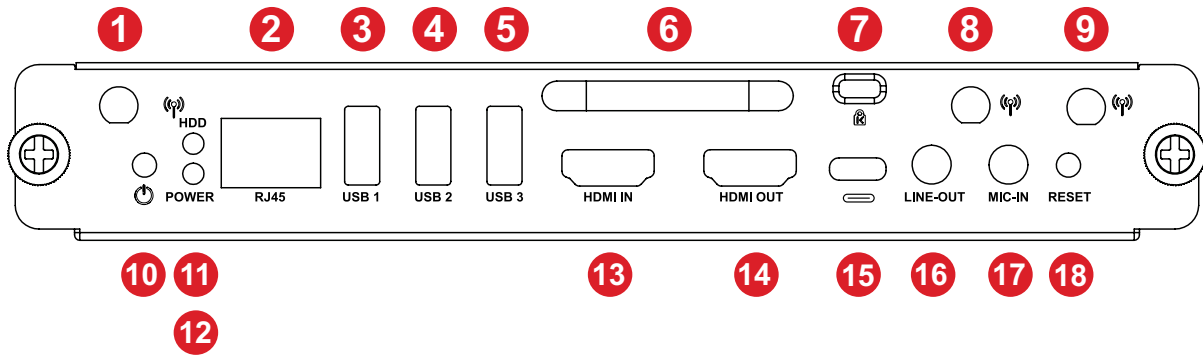
Antenna x 3

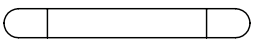





Quick Start Guide

NOTE: If anything is missing or damaged, please contact your local reseller for more information.

Product Overview

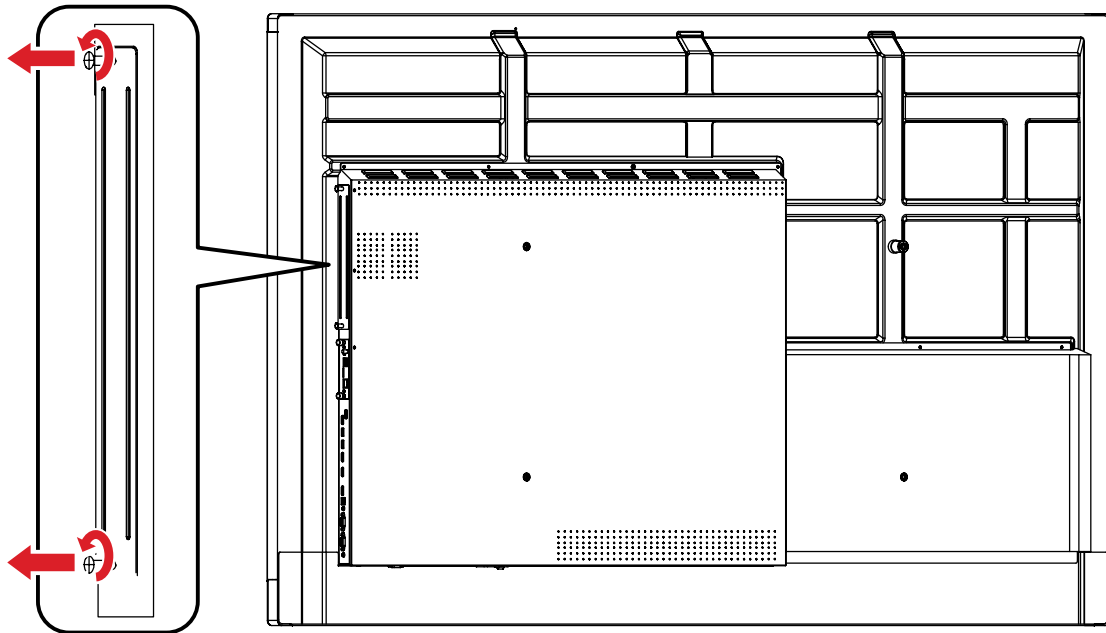


Number	Item	Description						
1	Antenna	Wi-Fi antenna interface						
2	RJ45	Standard RJ45 (10M/100M/1G) internet connection port NOTE: This network port is only used for PC.						
3	USB 1	USB 3.0 port						
4	USB 2	USB 3.0 port						
5	USB 3	USB 3.0 port						
6		Handle						
7		Security lock						
8	Antenna	2.4G antenna interface						
9	Antenna	Wi-Fi antenna interface						
10		Power button						
11	Status LED	Status indicator light (Green) <table border="1" data-bbox="614 1310 1372 1467"> <thead> <tr> <th>Mode</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Off</td> <td>Indicator light is off</td> </tr> <tr> <td>On</td> <td>Green indicator light is always on</td> </tr> </tbody> </table>	Mode	Description	Off	Indicator light is off	On	Green indicator light is always on
Mode	Description							
Off	Indicator light is off							
On	Green indicator light is always on							
12	Power LED	Power indicator light (Red) <table border="1" data-bbox="614 1534 1372 1691"> <thead> <tr> <th>Mode</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Off</td> <td>Indicator light is off</td> </tr> <tr> <td>On</td> <td>Red indicator light is flashing</td> </tr> </tbody> </table>	Mode	Description	Off	Indicator light is off	On	Red indicator light is flashing
Mode	Description							
Off	Indicator light is off							
On	Red indicator light is flashing							
13	HDMI IN	HDMI input. Connect to a PC or other device with HDMI output.						
14	HDMI OUT	Extend content out to another display device.						
15		USB Type C input (Data only; 5V/0.9A charging)						
16	LINE-OUT	Audio out for connected headphones or speakers.						
17	MIC-IN	Microphone connection						
18	RESET	Reset button						

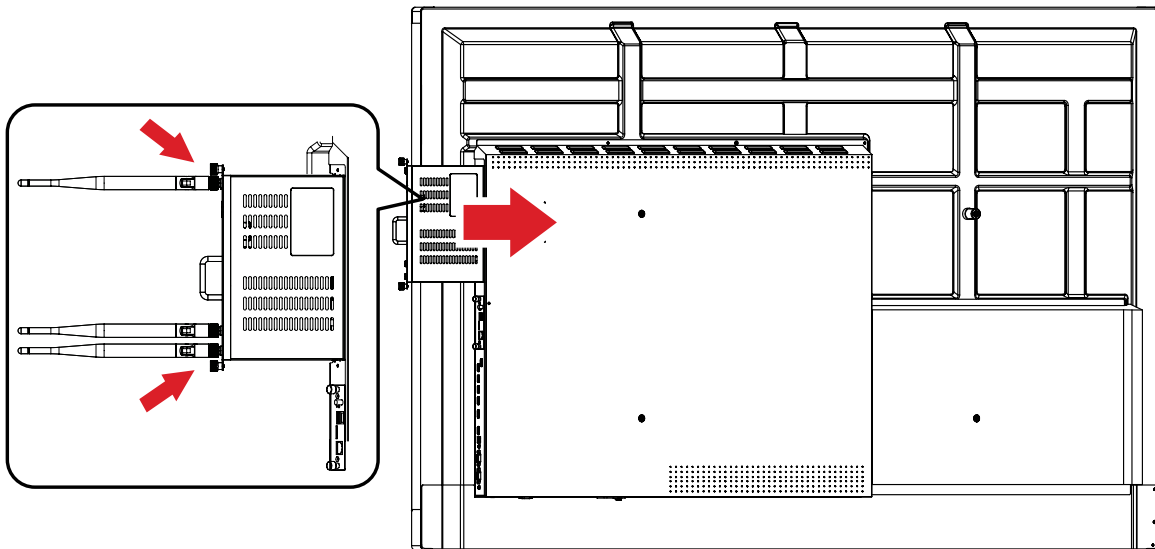
Initial Setup

Installing the VPC-A31-O1

1. Remove the slot-in PC cover of the display.



2. Using the handle of the VPC-A31-O1, carefully insert it into the PC slot of the display.



3. Secure the VPC-A31-O1 to the display with the two (2) included screws.

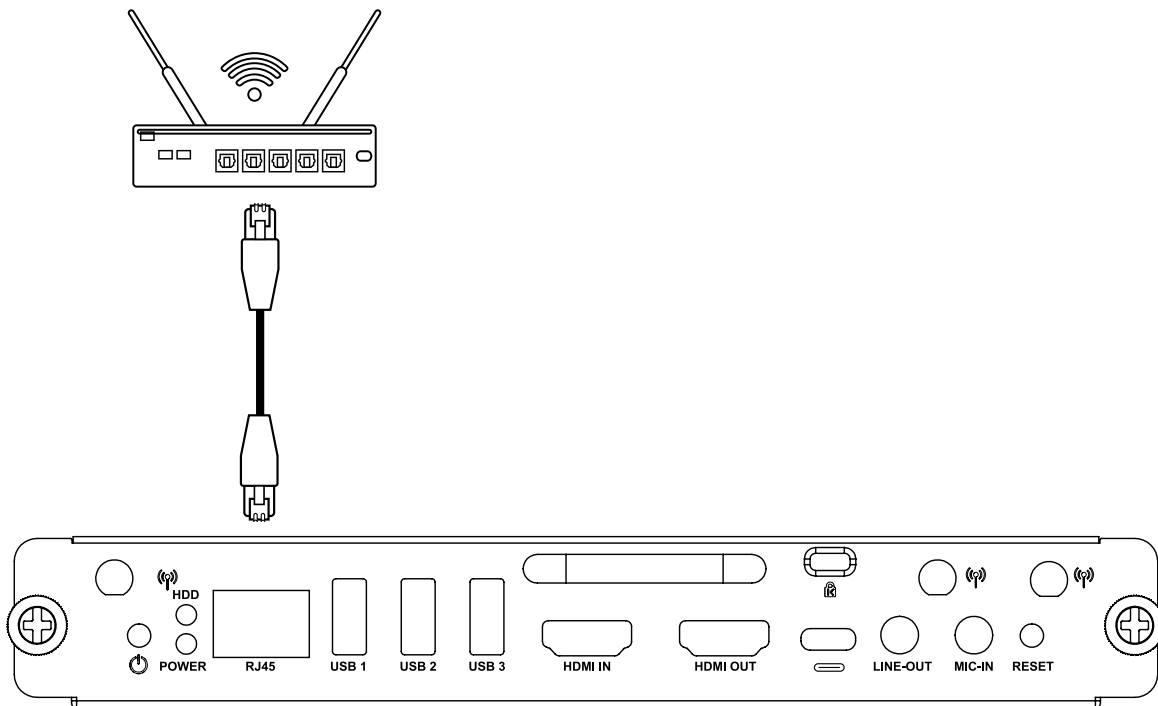
NOTE:

- Please note that the three (3) antennas must be installed on the VPC-A31-O1.
- Please pay attention to the installation direction of the VPC-A31-O1, with the vents facing outwards to avoid damage.

Making Connections

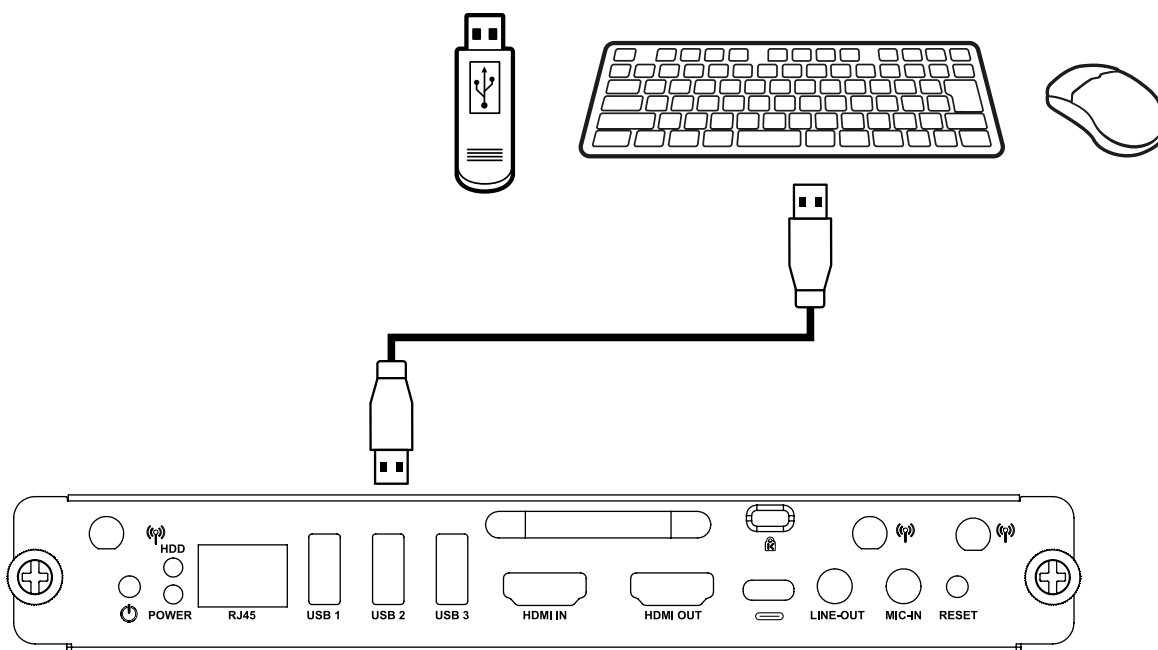
Network Connection

To connect to the Internet or a network, connect one end of a RJ45 cable to the **RJ45** port of the VPC-A31-O1, then connect the other end to your network.



USB Connection

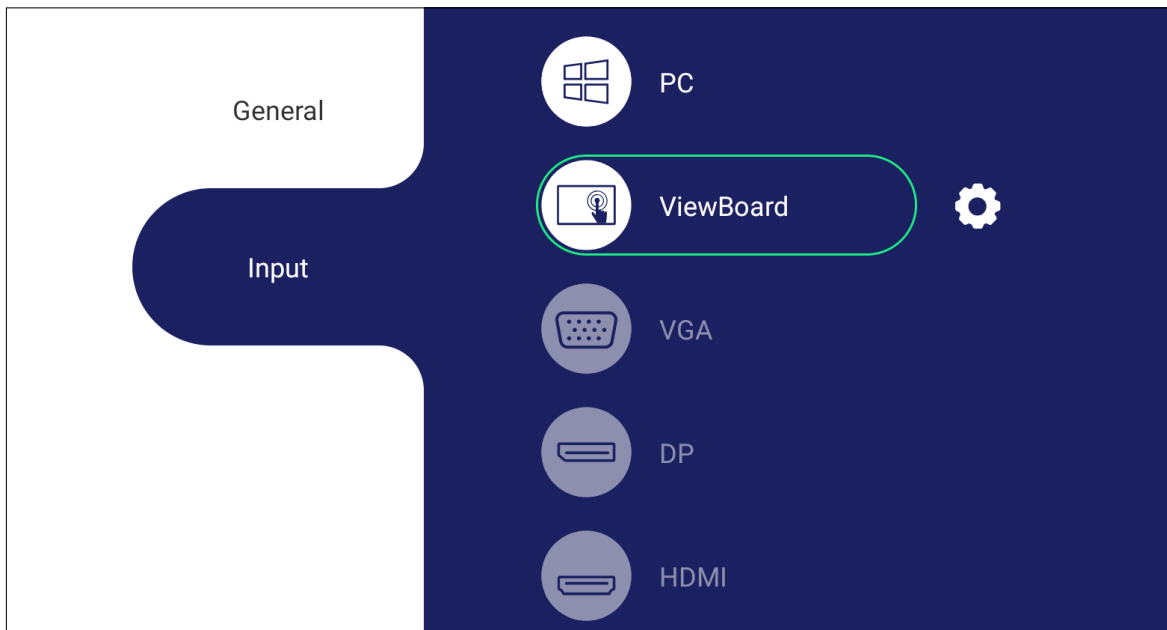
USB peripherals such as keyboards, mice, storage devices, etc. can be connected to the VPC-A31-O1's **USB 1**, **USB 2**, or **USB 3** port.





Using the Device

Selecting an Input Source

IFP Series

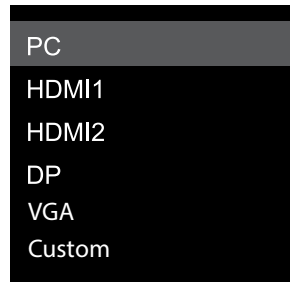


To select an input source:



1. Press **INPUT**/ on the remote control, press the setting button on the front panel, or press the Settings icon from the toolbar to display the Input Settings menu.
2. Press **▼/▲/◀/▶** on the remote control to select the PC source.
3. Press **OK/ENTER** on the remote control, or touch the input source directly.
4. Press **EPG/BACK**/ on the remote control, or touch a blank area outside of the menu to exit.

NOTE: The above image is for reference only and is subject to change without notice.

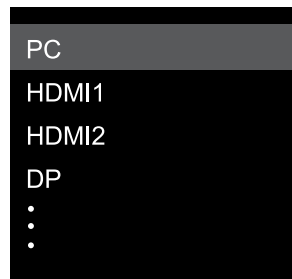
CDE Series



To select an input source:


1. Press **INPUT**/ on the remote control.
2. Press **▼**/**▲** on the remote control to select the PC source.
3. Press **OK/ENTER** on the remote control.
4. Press **EPG/BACK**/ on the remote control to exit.

NOTE: The above image is for reference only and is subject to change without notice.



IFPG1 Series

To select an input source:

1. Press **INPUT**/ on the front panel.
2. In the OSD Menu, touch **INPUT**.
3. Touch the PC input source directly.
4. Touch a blank area outside of the menu to exit.

NOTE: The above image is for reference only and is subject to change without notice.

Appendix

Specifications

Category	Item	Specifications
Core	CPU	MediaTek MT8195
Graphic	Chipset	GPU: Mali G57 MC5 NPU: 4.8Tops
Memory	Memory	Slot type: LP-DDR4x Size: 8GB
I/O	Ports	1 x HDMI IN (v. 2.0, 4K@60Hz) ¹ 1 x HDMI OUT (v. 2.0, 4K@60Hz) ¹ 1 x RJ45 (LAN) 3 x USB 3.0 Type A 1 x USB 3.0 Type C (Data only, no PD support, 5V/900mA) 1 x Analog audio-in(3.5 mm, mic-in) 1 x Analog audio-out (3.5 mm) 3 x Antenna
Physical	Dimensions (mm)	200 x 118 x 30 mm
	Dimensions (in.)	7.87" x 4.65" x 1.18"
	Weight (kg)	0.70 kg
	Weight (lbs.)	1.54 lbs
Operating Conditions	Altitude	< 5000 m
	Humidity	10% ~ 90% (non-condensing)
	Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Conditions	Altitude	< 5000 m
	Humidity	10% ~ 90% (non-condensing)
	Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Power	Voltage	12~19V DC
	Consumption	36W

¹ Does not support CEC.

Category	Item	Specifications
Wi-Fi Module	Form Factor	Wi-Fi 6 (IEEE 802.11 a/b/g/n/ac/ax Wi-Fi 2T/2R+)
		Bluetooth 5.2 (V2.1/4.2/5.2 USB2.0/3.0 Module)
	Frequency Range and Output Power (Max.)	<p>Typical RF Output Power at each RF chain, at a room temperature of 25°C (77°F)</p> <p><u>2.4G</u></p> <ul style="list-style-type: none"> • 14±2dBm VHT20 at MCS0~7 • 13±2dBm VHT20 at MCS8~9 • 14±2dBm VHT40 at MCS0~7 • 13±2dBm VHT40 at MCS8~9 <p><u>5G</u></p> <ul style="list-style-type: none"> • 14±2dBm VHT20 at MCS0~7 • 13±2dBm VHT20 at MCS8~9 • 14±2dBm VHT40 at MCS0~7 • 13±2dBm VHT40 at MCS8~9 • 13±2dBm VHT80 at MCS0~9

Regulatory and Service Information

Compliance Information

This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on the unit.

FCC Compliance Statement

FCC ID: GSS-VS19699

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 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.

FCC Radiation Exposure Statement

This device complies with FCC: radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This device should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

The user manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the Party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Statement

IC ID: 4280A-VS19699

CAN ICES-003(B) / NMB-003(B)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada licence-exempt RSS standard(s):
Operation is subject to the following Two conditions:(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Restrictions in the 5 GHz Band

Within the 5.15 to 5.25 GHz band, UNII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel Mobile Satellite System (MSS) operations.

Restrictions Dans la Bande de 5 GHz

Dans la bande de 5,15 à 5,25 GHz, les appareils UNII seront restreints aux opérations intérieures pour réduire toute possibilité d'interférence pouvant nuire aux opérations du Système satellite mobile dans le même canal(MSS).

This radio transmitter [4280A-VS19699] 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.

— Le présent émetteur radio [4280A-VS19699] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés cidessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour.

Antenna Info

Antenna type : External antenna

Manufacturer : Shenzhen Huadechang Technology Co., Ltd

Model name : HDC-300

Antenna gain : 5dBi

Connector type : RP-SMA (SMA Straight Plug Reverse for RG-178)

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis/Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

IC Radiation Exposure Statement

This device complied with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body. The device for the band 5150-5825 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps. Les dispositifs fonctionnant dans la bande 5150- 5825 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage.

CE Conformity for European Countries

CE The device complies with the EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and Radio Equipment Directive 2014/53/EU.

The following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



The operating frequency bands and the maximum transmitted power limit are listed below:

2412-2472MHz (Wi-Fi 2.4GHz),

5180-5320MHz (Wi-Fi 5GHz),


5500-5700MHz (Wi-Fi 5GHz),

Max Output Power : under 20dBm

These devices comply with RF specifications when the device is used at 20 cm from your body.

Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

La bande 5150-5250 MHz est réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage pré judiciaire aux systèmes de satellites mobiles utilisant les mêmes canaux.

	BE	BG	CZ	DK	DE	EE	IE
	EL	ES	FR	HR	IT	CY	LV
	LT	LU	HU	MT	NL	AT	PL
	PT	RO	SI	SK	FI	SE	NO
	IS	LI	CH	TR	UK(NI)		

Para su uso en México

“La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada”.

“Este equipo ha sido diseñado para operar con antenas tipo monopolo con ganancia de 5 dBi para 2.4 GHz y 5 GHz WLAN. El uso con este equipo de antenas que tengan una ganancia mayor que 5 dBi quedan prohibidas. La antena es única y la impedancia requerida es de 50 ohms”.

Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr6 ⁺)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis(2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below:

- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the “India E-waste Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

ViewSonic® respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic® website to learn more.

USA & Canada:

<https://www.viewsonic.com/us/go-green-with-viewsonic>

Europe:

<https://www.viewsonic.com/eu/go-green-with-viewsonic>

Taiwan:

<https://recycle.epa.gov.tw/>

Copyright Information

Copyright© ViewSonic® Corporation, 2023. All rights reserved.

Macintosh and Power Macintosh are registered trademarks of Apple Inc.

Microsoft, Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States and other countries.

ViewSonic®, the three birds logo, OnView, ViewMatch, and ViewMeter are registered trademarks of ViewSonic® Corporation.

VESA is a registered trademark of the Video Electronics Standards Association. DPMS, DisplayPort, and DDC are trademarks of VESA.

Disclaimer: ViewSonic® Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

In the interest of continuing product improvement, ViewSonic® Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic® Corporation.

Customer Service

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product's serial number.

Country/ Region	Website	Country/ Region	Website
Asia Pacific & Africa			
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/
中国 (China)	www.viewsonic.com.cn	香港 (繁體中文)	www.viewsonic.com/hk/
Hong Kong (English)	www.viewsonic.com/hk-en/	India	www.viewsonic.com/in/
Indonesia	www.viewsonic.com/id/	Israel	www.viewsonic.com/il/
日本 (Japan)	www.viewsonic.com/jp/	Korea	www.viewsonic.com/kr/
Malaysia	www.viewsonic.com/my/	Middle East	www.viewsonic.com/me/
Myanmar	www.viewsonic.com/mm/	Nepal	www.viewsonic.com/np/
New Zealand	www.viewsonic.com/nz/	Pakistan	www.viewsonic.com/pk/
Philippines	www.viewsonic.com/ph/	Singapore	www.viewsonic.com/sg/
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/
Americas			
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us
Latin America	www.viewsonic.com/la		
Europe			
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/
United Kingdom	www.viewsonic.com/uk/		



ViewSonic®