

User Guide

1. Device name : VD IoT dongle

2. Model name : VG-STDB10

3. General Information

- Shape : rectangle type
- Comm. Protocols : IEEE 802.15.4
- Dimensions : Width 25.2 * Depth 20.2 * Height 7mm
- Product Weight : approximately Not yet
- Operating Temp : 0 ~ 40 °C
- Power Source : External DC 5V

The VG-STDB10 USB Hub dongle is a gateway for Home automation networks.

Connected to the TV device, it acts as a pathway between remote home automation.

Power is provided by TV device USB port 5VDC power supply with USB C type connector.

Networking

The Hub incorporates Silicon Labs EFR32 ZigBee transceiver.

The transceiver allows the Hub to form a ZigBee network and act as the Coordinator Device.

Power Source

The VG-STDB10 is powered by TV device USB port 5VDC with C type USB connector.

Expansion Ports

The USB C type connector connects the TV device.

(This product only works when connected to 2022 Samsung TVs)

4. Electrical Properties

Zigbee part

Parameter	Description
SW Protocol	IEEE 802.15.4
Modulation type	DSSS-OQPSK
Channel interval	5MHz
Maximum output power (Average)	18.5dBm (Included tolerance)
Antenna gain(Internal PCB antenna)	1.74 dBi
frequency range	2405MHz~2470MHz
Carrier frequency tolerance	$\leq 20 \times 10^{-6}$
Duty Cycle @ actual used	Max within 1%

Federal Communication Commission 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, 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 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

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 & your body.

Industry Canada Statement

This device complies with Industry Canada's licence-exempt RSSs. 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."

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

L'appareil peut interrompre automatiquement la transmission en cas d'absence d'informations à transmettre ou de panne opérationnelle. Notez que ceci n'est pas destiné à interdire la transmission d'informations de contrôle ou de signalisation ou l'utilisation de codes répétitifs lorsque cela est requis par la technologie.

Radiation Exposure Statement

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

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

IMPORTANT SAFETY PRECAUTIONS

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

Placing the television on a platform, stand, cabinet, table or other surface which is:

- recommended by Samsung or sold with the product;
- secure and stable;
- sufficiently wider in the base than the base measurement of the television;
- strong and large enough to support the size and weight of the television.

Positioning the television close to the wall to avoid the possibility of the television falling when pushed.

Ensuring your television is installed by an authorized Samsung installer.

Following the instructions for wall mounting in the installation manual and using the mounting equipment supplied by Samsung.

Placing the television toward the back of the furniture or surface on which it is placed.

Ensuring that the television does not hang over the edge of the furniture or surface on which it is placed.

Not hanging anything from or on the television.

Anchoring both the television and the furniture on which it is placed to a suitable support especially in the case of tall furniture, such as cupboards or bookcases which exceed one metre in height. This can be done by using sturdy brackets, safety straps or mounts that are made specifically for flat screen televisions.

Not placing any material between the television and the furniture on which it is placed.

If the furniture on which the television is placed has drawers, cabinets or shelves under the television, taking steps to prevent children from climbing, such as installing safety latches so the doors cannot be opened.

Keeping pets away from the television.

Educating children about the dangers of climbing on furniture to reach the television or its control.

Failure to take these safety precautions may cause the television to fall from the stand or mounting equipment, causing damage or serious injury.

Important Safety Instructions (UL Only)

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings, install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.

12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

⚠ WARNING
To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

Ventilation
Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting and installation.

Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS11362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:
BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows :
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

⚠ WARNING
DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

Regulatory Compliance Statements

USA

FCC Supplier’s Declaration of Conformity

Responsible Party – U.S. Contact Information:
Samsung Electronics America, Inc.
85 Challenger Road.
Ridgefield Park, NJ 07660
Phone: 1-800-SAMSUNG (726-7864)

FCC Compliance 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, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

Class B FCC Statement
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 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.

⚠ WARNING
User must use shielded signal interface cables to maintain FCC compliance for the product.

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type(parallel blades) plug cap. For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap. This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules. (TV broadcast receivers with picture screens 13 inches or larger in diameter models only)

(Applicable to tuner-included models only)
This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules.

User Information
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult with your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office. Washington, DC 20402, Stock Number 004-000-00345-4.

CANADA

Canadian Caution

This equipment contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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.

This equipment and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

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.

Cet appareil et ses antennes ne doivent pas être installés ou utilisés conjointement avec d'autres antennes ou émetteurs.

The equipment could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

ICES-003 Class B Notice - Avis NMB-003, Classe B

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC RSS-102 établies pour un environnement non controle. Cet équipement doit etre installe et utilise avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

TAIWAN

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

KOREA

이 장치는 이동전화, Wi-Fi 또는 블루투스 장치 등 무선통신장치와 매우 근접한 장소에서 작동할 경우 오동작을 일으킬 가능성이 있습니다.

[무선 제품 해당]

해당 무선설비는 운용 중 전파혼신의 가능성이 있으므로 인명 안전과 관련된 서비스는 할 수 없음.

JAPAN

VCCI Class B Notice

この装置は、クラスB 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して 使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

MEXICO

La operaci3n de este equipo est1 sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operaci3n no deseada.

[ENERGY STAR]

ENERGY STAR qualified model only

- Your Samsung product is ENERGY STAR qualified in its factory default setting. Change to certain features, settings and functionality in this product can change the power consumption, possibly beyond the limits required for ENERGY STAR qualification.

- Environmental Protection Agency and Department of Energy. ENERGY STAR is a joint program of the Government agencies, designed to promote energy efficient products and practices.

Refer to www.energystar.gov for more information of the ENERGY STAR Program.

ENERGY STAR qualified model only

(Applicable to Thin Client models only)

- As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.
- The ENERGY STAR Program has been to reduced greenhouse gas emissions and save energy through voluntary labeling.
 - Power management setting of this product have been enabled by default, and have various timing setting from 1 minutes to 5 hours.
 - The product can wake with a button press on the chassis from sleep mode.

ENERGY STAR qualified model only (The other models)

- As an ENERGY STAR Partner, Samsung has determined that this product or product models meets the ENERGY STAR guideline for energy efficiency.



CHINA

碱性及非碱性锌-二氧化锰电池中 汞、镉、铅含量的限制要求标准：GB/T- 8897. 2. -2013

注意：使用前请确认电池正负极。请勿将电池拆卸、焚烧或充电。不同种类电池不可混用。长期不用时，请取出电池。

含量汞：“低汞” 或 “无汞”

锌-氧化银、锌-空气、锌-二氧化锰 扣式电池中汞含量的限制要求标准：GB/T- 8897. 2. -2013

注意： 使用前请确认电池正负极。请勿将电池拆卸、焚烧或充电。不同种类电池不可混用。

长期不用时，请取出电池。将电池远离儿童，如误吞食，请即刻就医。

含量汞：“无汞” 或 “无含量≤20 mg/g”

BRAZIL

Pilhas e baterias, após seu uso, não devem ser jogadas em lixo comum. Para evitar riscos à saúde humana e ao meio ambiente, realize o descarte ambientalmente adequado, em um Serviço Autorizado Samsung.

EUROPE

Recycling Information (Take-back offer)

For recycling information for our product and packaging, please contact the company corresponding to your region of residence. For those who reside in other countries, please contact a nearest local Samsung dealer for recycling information for the products to be treated in environmentally acceptable way. The information of Regional Takeback Schemes can be found at Samsung's web-site: http://www.samsung.com/recycling_compliance

European consumer can find take-back information below.

Samsung UK : <http://www.samsung.com/uk/> → About Us → Corporate citizenship → Environmental Data Corner
Link: http://www.samsung.com/uk/aboutsamsung/samsungelectronics/corporatecitizenship/data_corner.html

For information on Samsung's environmental commitments and product-specific regulatory obligations, e.g. REACH, WEEE, Batteries, visit : www.samsung.com/uk/aboutsamsung/sustainability/environment/our-commitment/data/ (Italy: <http://www.samsung.com/it/aboutsamsung/sustainability/environment/our-commitment/data/>)

Ecodesign requirements for external power supplies: Information requirements (Adapter applied model only) www.samsung.com/global/ecodesign_component

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

USA

CALIFORNIA USA ONLY (Applicable for networking models only.)

This Perchlorate warning applies only to primary CR(Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA “Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate.”

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recycling Or call, 1-800-SAMSUNG

 **WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.**

TURKEY

Ürünün enerji etiketi ile ilgili detaylı bilgiye ulaşmak için:

(1) https://www.samsung.com/global/ecodesign_energy web sitesini ziyaret edin

(2) Enerji etiketi üzerinde bulunan ürün kodunu sayfadaki arama bölümüne yazın

(3) Enerji etiketi ile ilgili bilgilere ulaşabilirsiniz

AEEE Yönetmeliğine Uygundur

HARİCİ GÜÇ KAYNAKLARI İÇİN ÇEVREYE DUYARLI TASARIM
GEREKLİLİKLERİ: BİLGİ GEREKSİNİMLERİ (Yalnızca adaptör uygulanan model)

www.samsung.com/global/ecodesign_component

INDIA

This product is RoHS compliant.



This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information on safe disposal and recycling visit our website www.samsung.com/in or contact our Helpline numbers-1800 40 SAMSUNG(1800 40 7267864) (Toll-Free)

[World Wide]

The PVC Free (except for accessory cables) logo is the self-declared trademark of Samsung.

* Accessory cables: signal cables and power cords

PVC Free(엑세서리 케이블류 제외)로고는 당사의 자가 선언 마크입니다.

* 엑세서리 케이블류 : 각종 Signal Cable, Power Cord 등

For the One Connect or One Connect Mini supported models, when the TV is connected to an external device such as a DVD/BD player or a set-top box via HDMI, power sync mode will be automatically activated. In this power sync mode, TV continues to detect and connect external devices via HDMI cable. This function can be deactivated by removing HDMI cable of connected device.