



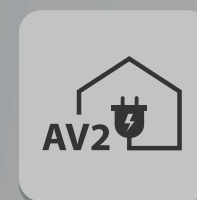
# AV2000

2-port Gigabit Passthrough Powerline Starter Kit

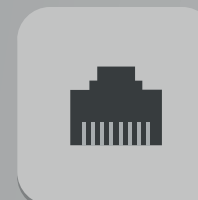
TL-PA9020P KIT

## Highlights

- HomePlug AV2 – Provides ultra-fast powerline transfer speeds of up to 2000Mbps<sup>1</sup>
- 2X2 MIMO with Beamforming – Establishes multiple simultaneous connections for you to enjoy higher powerline speeds and greater stability
- 2 Gigabit Ports – Create secure wired networks for desktops or IPTVs
- Extra Power Socket – Get power from the outlet for other devices with the integrated power socket
- Plug ,Pair and Play – Establish a unified and secure network in minutes
- Power-Saving Mode – Automatically reduces power consumption by up to 85%



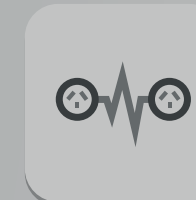
2000Mbps  
HomePlug AV2



Gigabit  
Ports



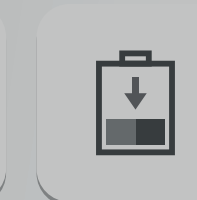
Extra Power  
Socket



300  
Meters



One Button  
Security



Power  
Save

# Features



## Speed

- **Ultra-fast Powerline Speed** – HomePlug AV2 standard compliant, high-speed data transfer rate of up to 2000Mbps, ideal for Ultra HD streaming and online gaming
- **Multiple Gigabit Ports** – 2 Gigabit Ethernet Ports allow your TVs, game consoles or PCs to connect to the Internet at high speeds



## Reliability

- **Mains Filter** – Mains Filter inside the outlet reduces electrical noise interference and improves powerline communication performance



## Ease of Use

- **Plug , pair and play** – Set up your Powerline network in a matter of minutes. Simply plug, pair, and enjoy.
- **No New Wires** – No new wires, use existing electrical wiring to expand your home network
- **Extra Power Outlet** – Embedded power socket makes power accessible to other devices



## Energy Saving

- **Power Save** – Power Saving Mode helps reducing power consumption by up to 85%<sup>1</sup>



## Range

- **300-meter Range** – Up to 300-meter range over the household power circuit



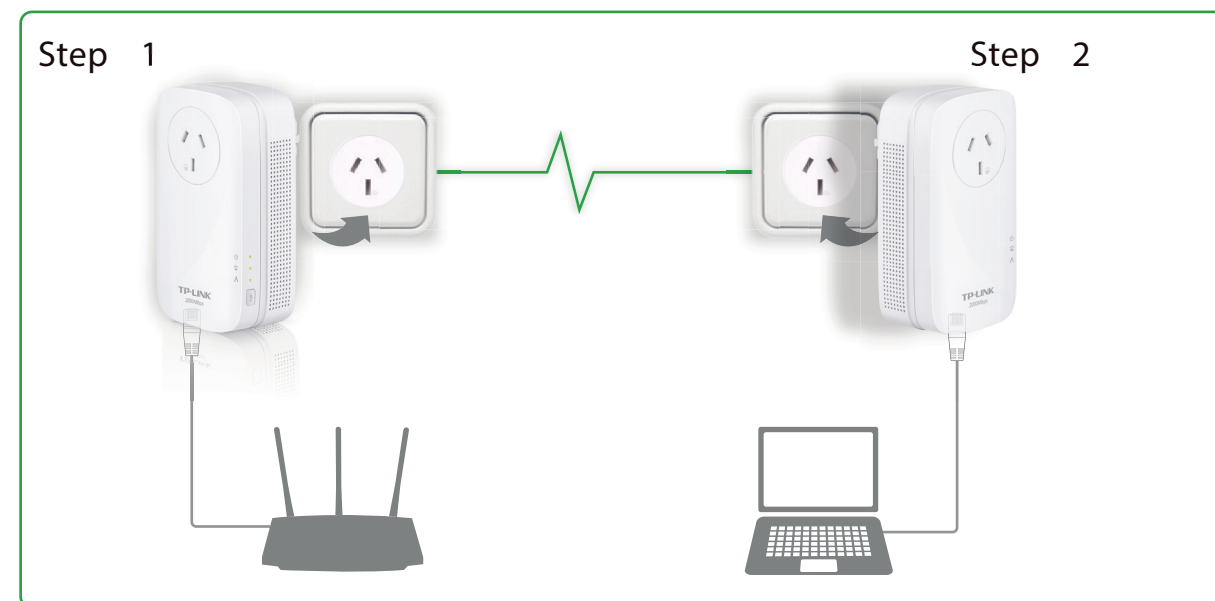
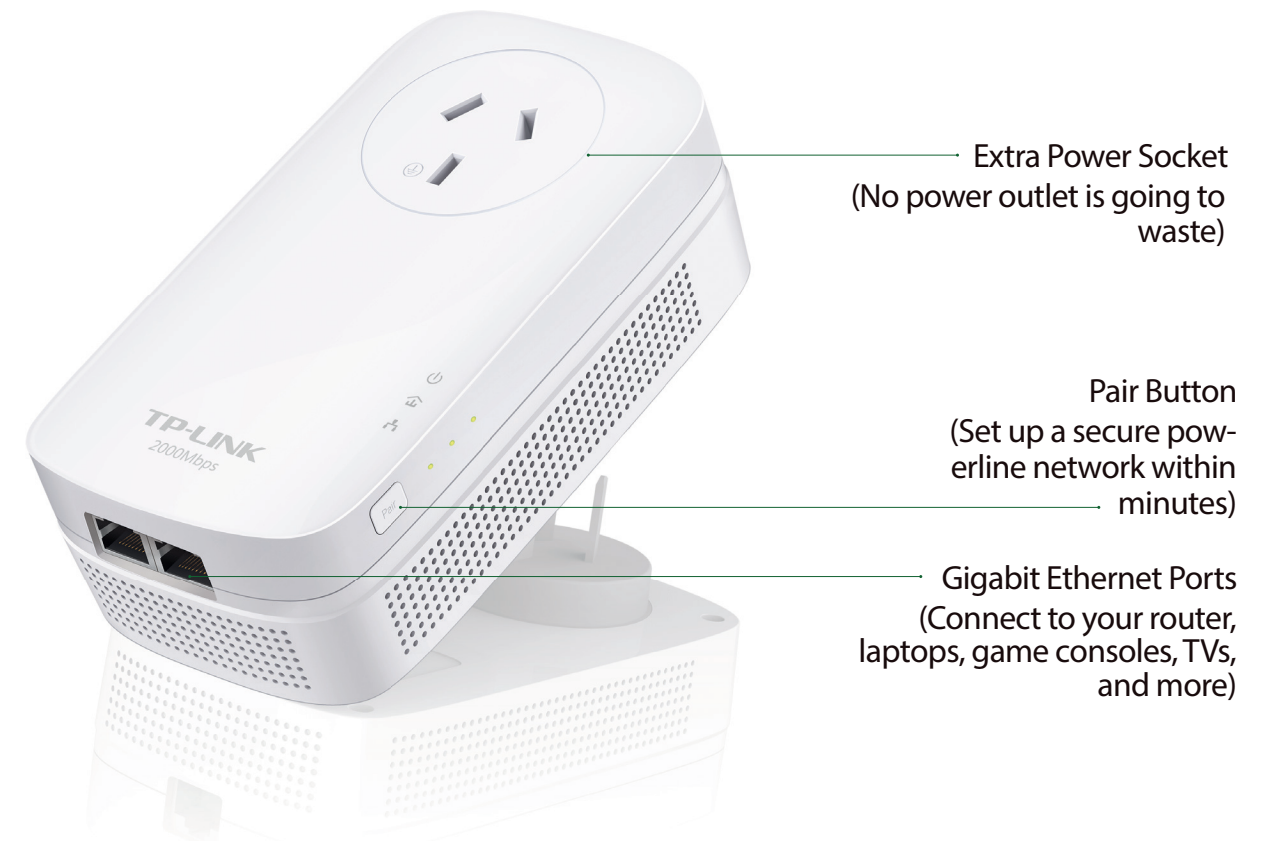
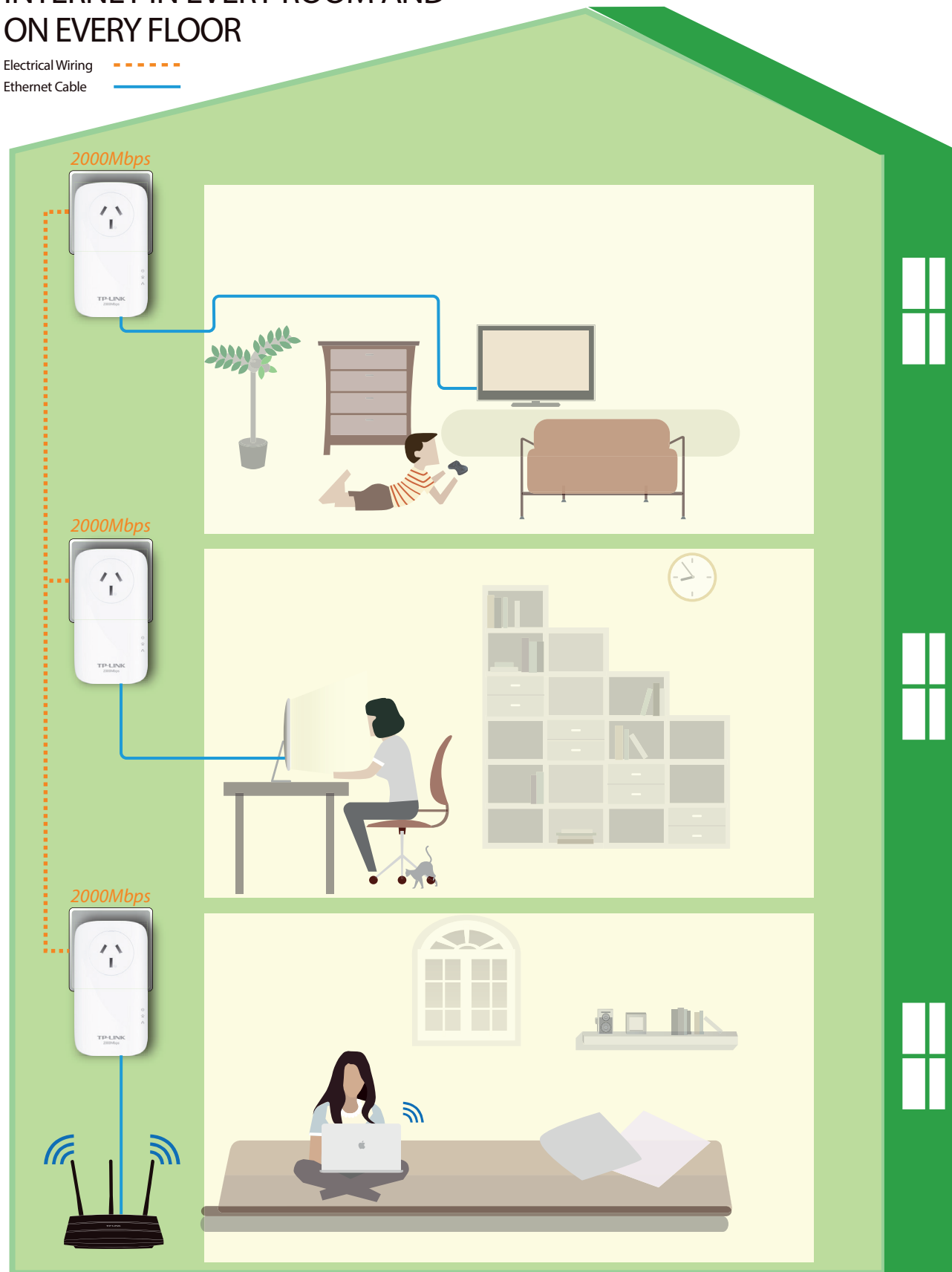
## Security

- **Pair Button** – 128-bit AES encryption easily at a push of "Pair" Button

# Diagrams

## INTERNET IN EVERY ROOM AND ON EVERY FLOOR

Electrical Wiring ———  
Ethernet Cable ———



**Note:** Powerline adapters should be deployed on the same circuit and in set of two or more. The first, connected to the router and others located elsewhere to enable connectivity in those locations.

# 2X2 MIMO with Beamforming

The HomePlug AV2 standard with 2X2 MIMO significantly improves speeds, especially during peak hours.

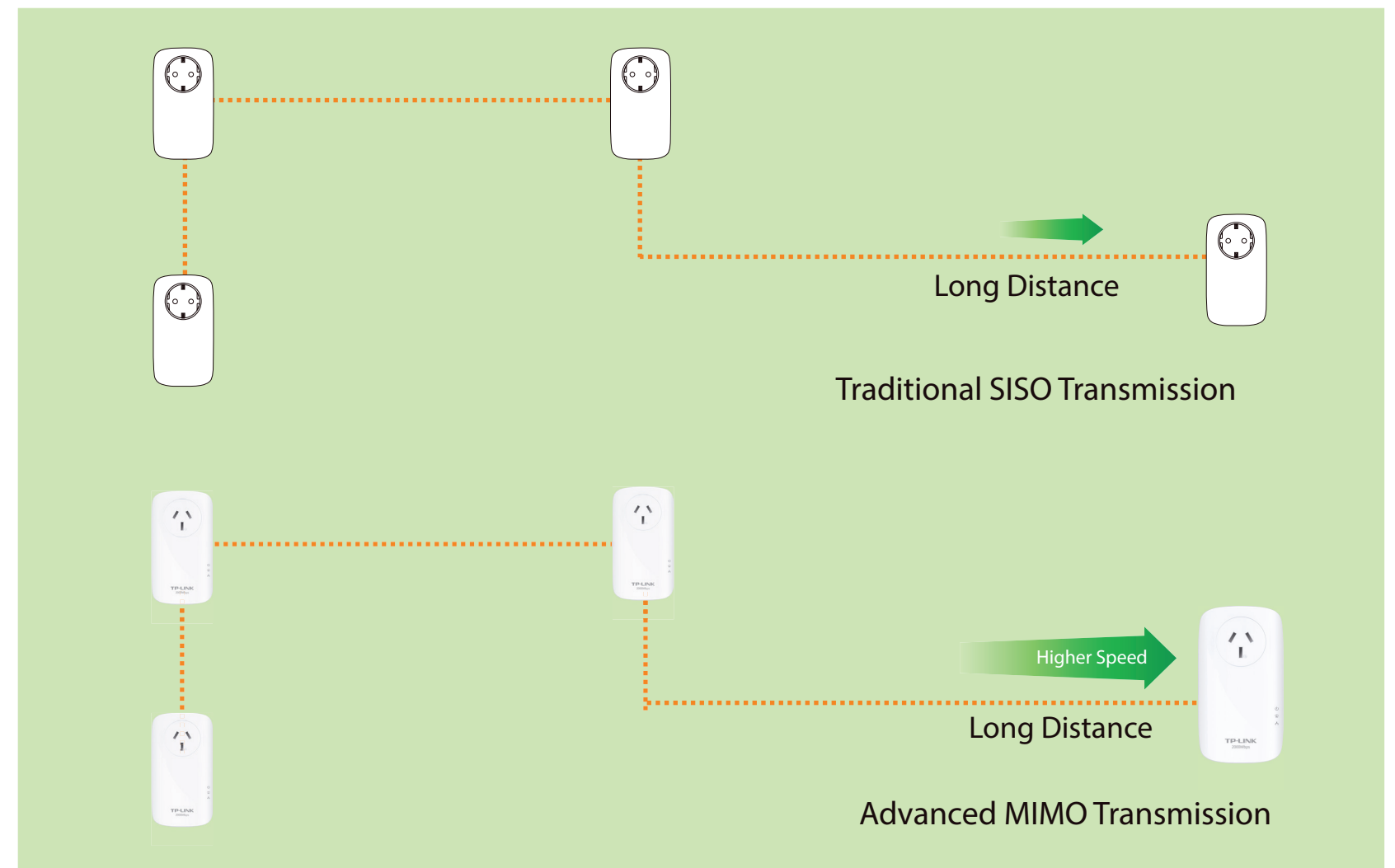
## More Stable Connections

Incorporating 2X2 MIMO is like adding an extra lane to a highway. It establishes multiple simultaneous connections, allowing you to enjoy higher speeds and greater stability.



## Better Long Distance Performance

2X2 MIMO with Beamforming Technology also offers the benefit of improved coverage and long distance performance throughout the home, particularly for previously hard to reach outlets.



# Specifications

---

## Hardware

---

- **Transmission Speeds:** Powerline: up to 2000 Mbps  
Ethernet: 10/100/1000 Mbps
- **Standards and Protocols:** HomePlug AV2, HomePlug AV, IEEE 1901, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- **Interface:** 2 \* Gigabit Ethernet Port, Power Socket
- **Plug Type:** EU, UK, US,FR
- **Button:** Pair Button
- **LED Indicator:** Power, Powerline, Ethernet
- **Item Dimensions (W x D x H):** 5.2×2.8×1.7 in. (131×72×42 mm)
- **Packing Dimensions ( W x D x H ):** 9.1 x 7.5 x 3.9 in. (230x190x100 mm)
- **Access Methods:** CSMA/CA channel-access schemes
- **Frequency Band:** 2 MHz to 86 MHz
- **IGMP:** IGMP v1/v2/v3
- **Power Output to Integrated Socket:** 16 A
- **Power Consumption:** Maximum: 5.8 W (230V/50Hz)  
Standby: 0.5 W (230V/50Hz)
- **Power Saving Mode:** When there is no Ethernet link in 300 seconds
- **Range:** 300 meters in house
- **Compatibility:** Compatible with all AV2000, AV1200, AV1000, AV600, AV500 & AV200 powerline adapters

## Software

---

- **Modulation Technology:** OFDM
- **Security:** 128-bit AES Encryption
- **Quality of Service (QoS):** ToS  
Supports up to 4-level type QoS  
Support up to 8-level VLAN priority field

## Others

---

### Package Contents

- AV2000 2-port Gigabit Passthrough Powerline Adapter, TL-PA9020P \* 2
- 2-meter RJ-45 Ethernet Cable \* 2
- Quick Installation Guide

### Certification

- CE, RoHS

### System Requirements

- Windows 8.1/8/7/Vista/XP, Mac OS, Linux<sup>2</sup>

### Environment

- **Operating Temperature:** 0°C~40°C (32°F~104°F)
- **Storage Temperature:** -40°C~70°C (-40°F~158°F)
- **Operating Humidity:** 10%~90% non-condensing
- **Storage Humidity:** 5%~90% non-condensing

# Others

## Ideal to use with



- AC2600 Wireless Dual Band Gigabit Router  
Archer C2600



- AC1900 Wireless Dual Band Gigabit Router  
Archer C9

## Similar Products



- AV1200 Gigabit Passthrough Powerline Starter Kit  
TL-PA8010P KIT



- AV1000 2-Port Gigabit Passthrough Powerline Starter Kit  
TL-PA7020P KIT



For more information, please visit

<http://WWW.TP-LINK.COM/en/products/details/?model=TL-PA9020P+KIT>

or scan the QR code left

[www.tp-link.com](http://www.tp-link.com)

Specifications are subject to change without notice. TP-LINK is a registered trademark of TP-LINK TECHNOLOGIES CO., LTD. Other brands and product names are trademarks or registered trademarks of their respective holders. No part of the specifications may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from TP-LINK TECHNOLOGIES CO., LTD.

<sup>1</sup> Actual data will vary because of the network conditions and environment factors.

<sup>2</sup> Utility supports Windows 8.1/8/7/Vista/XP and Mac OS X (10.7 or later) operating system for the present.