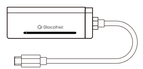
# KD-1 User Manual

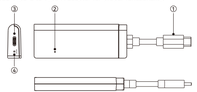



## [Product Overview]

The KD-1is a versatile device that supports internet connectivity via both Wi-Fi hotspot and direct USB connection. It is equipped with a USB Type-C port on the main unit, enabling a wide range of applications across smartphones, laptops, tablets, digital signage systems, and various industrial or IoT devices requiring 4G internet access.
The built-in USB Type-C port supports high-speed Power Delivery (PD) charging up to 60W using the standard included cable. When used with an EMARK-compliant cable, it can deliver PD charging of up to 65W.
※ Compatibility with all USB Type-C ports is not guaranteed.

## Important: Usage Precautions

When using this product to connect to the internet (via Ethernet) through a computer using the USB Type-C plug, connecting a cable to the opposite USB Type-C port will forcibly terminate the connection. However, Wi-Fi connectivity will remain unaffected. Additionally, while the device is connected to a computer via the USB Type-C plug, charging through the USB Type-C port is not available.
If the device is powered via a USB power adapter instead of a computer connection, the USB Type-C port can be used without issue.
※ This product supports unidirectional USB communication only, and therefore both ports cannot be used simultaneously while connected to a computer.
※ Use of USB Type-C to Lightning conversion adapters is not supported. Please use either a Type-C plug directly or the included USB Type-C to Type-A adapter for proper functionality.




1. USB Type-C Plug
2. Wi-Fi LED Indicator
3. USB Type-C Port (Receptacle)
4. Reset Button

**LED Indicator Guide**

| LED Indicator | Status | Description |
|---|---|---|
| Wi-Fi LED (Blue) | Solid | Network connected |
| | Blinking | Connecting to network or no network detected for over 5 minutes |
| | Off | ※Power off |

## How to Use

**1.How to connect to the internet via Wi-Fi:**
Supply power to the device using an adapter, mobile battery, etc. Once the Wi-Fi indicator lights up, you can connect.
• Check the Wi-Fi name and password on the device.
• On your smartphone, search for wireless networks and connect to 〔GlocalNet_XXXXXX〕.

**2.Direct USB Internet Connection via Type-C Plug:**
By connecting this device to an OTG-compatible smartphone, laptop, tablet, or digital signage system, you can access the internet via USB.
No driver installation is required—simply plug and play.
※OTG (USB On-The-Go) is a function that allows smartphones and tablets to directly recognize and interact with USB devices.
While many Android devices support OTG, compatibility with all models is not guaranteed.

• Compatible with operating systems such as :Windows, macOS, Android, and iOS (iPhone 15 series and later※).
※iPhones/iPads with Lightning ports are not supported (use of a conversion adapter (USB Type-C → Lightning) is not supported).

**3.PD (Power Delivery) Supported Fast Charging Function (Up to 65W):**
By connecting a device that requires charging (such as a laptop, smartphone, or tablet) to the USB Type-C port on the main unit, and connecting the Type-C plug side to a charger or mobile battery, fast charging of up to 65W is possible.
※The included cable supports up to 60W. For 65W charging, please use an EMARK-compliant USB Type-C cable.

**4.Reset Function and USB Connection Precautions:**
If you wish to reset the device (e.g., to initialize the Wi-Fi password), press and hold the reset button for 5 seconds. The settings will return to their default state.
Note: When connecting to the internet via USB (Ethernet connection) on a laptop or similar device, charging via the USB Type-C port will not be possible. In this case, the Ethernet connection will be disconnected, but Wi-Fi connectivity will remain unaffected.

## [Technical Specifications]

Product Model : KD-1
Package Contents : Device ×1. User Manual ×1
Accessories : Conversion Adapter（USB Type-C → Type-A）×1.
USB Type-C to Type-C ケーブル(1m)×1
Product Size : 30×82×12mm About 34g
Charging Function : Supports PD fast charging／Plug and play compatible
Input/Output : ≤20V
FDD-LTE : B1/2/3/4/5/7/8/9/12/13/17/18/19/20/25/26/28/66
TDD-LTE : B34/38/39/40/41（194M）
WCDMA : B1/2/4/5/8
Wi-Fi Standard : 2.4GHz 802.11 b/g/n/ax（Wi-Fi 6 compatible）
Maximum Number of Connections : 8
Encryption Method : WPA2-PSK
Theoretical Maximum 4G Download Speed : 150Mbps
Theoretical Maximum 4G Upload Speed : 50Mbps

## [Q&A]

**1.Q : What should I do if the Wi-Fi indicator is blinking?**
A : If the indicator is still blinking after 5 minutes from startup, please try disconnecting and reconnecting the USB cable. If the problem persists, your data plan may not be activated or may have expired. Please contact your service provider for confirmation.

**2.Q : What should I do if the Wi-Fi indicator does not light up?**
A : Check that the USB power supply is properly connected and ensure that power is being correctly supplied to the device.

**3.Q : How can I reset the device?**
A : Press and hold the reset button for 5 seconds to reset the device.

**4.Q : Why can't I connect to the internet when I connect the device to a laptop via the Type-C port on the main unit?**
A : This product only supports internet connection via USB through the Type-C plug included with the device. The other Type-C port on the device is designed only for power supply and cannot be used for data communication.

**5.Q : When I connected a cable to the opposite Type-C port while the device was connected to my PC, the internet disconnected. Why?**
A : This product supports only one-way USB data communication. If you are using the device for internet (Ethernet) connection via the Type-C plug, inserting a cable into the opposite Type-C port will forcibly terminate the internet connection. This is by design.
※ When powering the device using a USB power adapter, both ports can be used simultaneously.

**6.Q : How can I check the data usage on this device?**
A : Connect your smartphone, tablet, or PC to the device via Wi-Fi and either scan the QR code printed on the back of the device, or enter "192.168.43.1" in your browser's address bar. The data usage page will be displayed, where you can view the data usage according to your subscribed plan. You can also change the SSID and Wi-Fi password on this page.
※ Note: Some devices or browsers may not be able to access the page.

**7.Q : What are the SSID and Wi-Fi password?**
A : The default SSID and Wi-Fi password are printed on the back of the device.
If you wish to change them, scan the QR code on the back or access "192.168.43.1" and change the settings on the data usage page.

※Please note: Information may vary depending on the software version. No notification will be provided for such changes.

## [Cautionary Notes]

**RF Exposure Statement**
RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated assuming a minimum distance of 20 cm between the device and the human body. To comply with RF exposure requirements, use the product in a way that maintains a distance of at least 20 cm from the body. When used within the European Community, the use of the 5150 MHz to 5250 MHz frequency band is restricted to indoor use only to reduce the potential for interference.

**EU Regulatory Compliance**
Hereby, GLOCALNET CO.,LTD.. declares that the radio equipment type KD-1 following Directive 2014/53/EU. This product is permitted for use in all EU Member States.

**FCC Regulatory Compliance**
This device complies with FCC radiation exposure limits set for an uncontrolled environment. This equipment must be installed and operated at a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
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. Changes or modifications not expressly approved by the party responsible for compliance could prevent the user's authority to operate the equipment.
Note: 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.

**Information on Device Disposal and Recycling**
This symbol (with or without a bar) shown on the device, battery (if included), and/or packaging indicates that the device and its electrical accessories (e.g., headset, adapter, cable), as well as the battery, should not be disposed of with household waste. These items must not be discarded as unsorted municipal waste. They should be taken to certified collection points for recycling or proper disposal. For detailed information on recycling your device or battery, please contact your local municipal office, household waste disposal service, or retailer. The disposal of the device and battery (if included) is subject to the WEEE Directive (Directive 2012/19/EU) and the Battery Directive (Directive 2006/66/EC). The purpose of separating WEEE and batteries from other waste is to minimize the environmental impact and health risks posed by potentially hazardous substances.

Do not disassemble or modify the device or battery. Avoid short circuits, and do not dispose of in fire. Do not expose to high temperatures or use after water exposure. Do not apply pressure to or strike the battery. If the battery is severely damaged, discontinue use immediately.
・The device's maximum speed is a theoretical value. Actual speed may be affected by local network conditions and the carrier's network coverage.
・If you experience unstable connectivity, please try disconnecting and reconnecting the device. You may also try resetting the device.
・For inquiries related to your service usage—such as checking your contract details, issues with the device, or loss of the device—please contact the service provider with whom you have the contract.

2.4G WIFI: 2410-2472MHz, EIRP<20dBm
WCDMA Band I: Output Power<24dBm
Uplink: 1920MHz ~ 1980MHz; Downlink: 2110MHz ~ 2170MHz
WCDMA Band VIII: Output Power<24dBm
Uplink: 880MHz ~ 915MHz; Downlink: 925MHz ~ 960MHz

LTE FDD Band 1: Output Power<25dBm
Uplink: 1922.5 ~ 1977.5MHz, Downlink: 2112.5 ~ 2167.5MHz
LTE FDD Band 3: Output Power<25dBm
Uplink: 1710.7 ~ 1784.3MHz, Downlink: 1805.7 ~ 1879.3MHz
LTE FDD Band 7: Output Power<25dBm
Uplink: 2502.5 ~ 2567.5MHz, Downlink: 2622.5 ~ 2687.5MHz
LTE FDD Band 8: Output Power<25dBm
Uplink: 880.7 ~ 914.3MHz, Downlink: 925.7 ~ 959.3MHz
LTE FDD Band 20: Output Power<26dBm
Uplink: 834.5 ~ 859.5MHz, Downlink: 793.5 ~ 818.5MHz
LTE FDD Band 28: Output Power<26dBm
Uplink: 704.5 ~ 746.5MHz, Downlink: 759.5 ~ 801.5MHz
LTE TDD Band 34: Output Power<25dBm
Uplink/Downlink: 2012.5 ~ 2022.5MHz
LTE TDD Band 38: Output Power<25dBm
Uplink/Downlink: 2572.5 ~ 2617.5MHz
LTE TDD Band 40: Output Power<25dBm
Uplink/Downlink: 2302.5 ~ 2397.5MHz

GNSS: 1575.42MHz, 1602MHz, 1561.098MHz

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