KEENETIC
STELLAR 6

Quick Start Guide

AX3000 Wi-Fi 6 Indoor/Outdoor Access
Point with a Gigabit Ethernet Port and
Power over Ethernet

KAP-650

For technical support and other information, please visit

support.keenetic.com

Deutsch, Francais, Español, Italiano, Български, Čeština, Dansk, Ελληνικά, Eesti, Suomi, Hrvatski, Magyar, Қазақша, Lietuviu, Latviski, Nederlands, Norsk, Polski, Português, Română, Русский, Slovenský, Slovenščina, Srpski, Svenska, Türkçe, Українська.
https://keenetic.com/qsg/kap-650
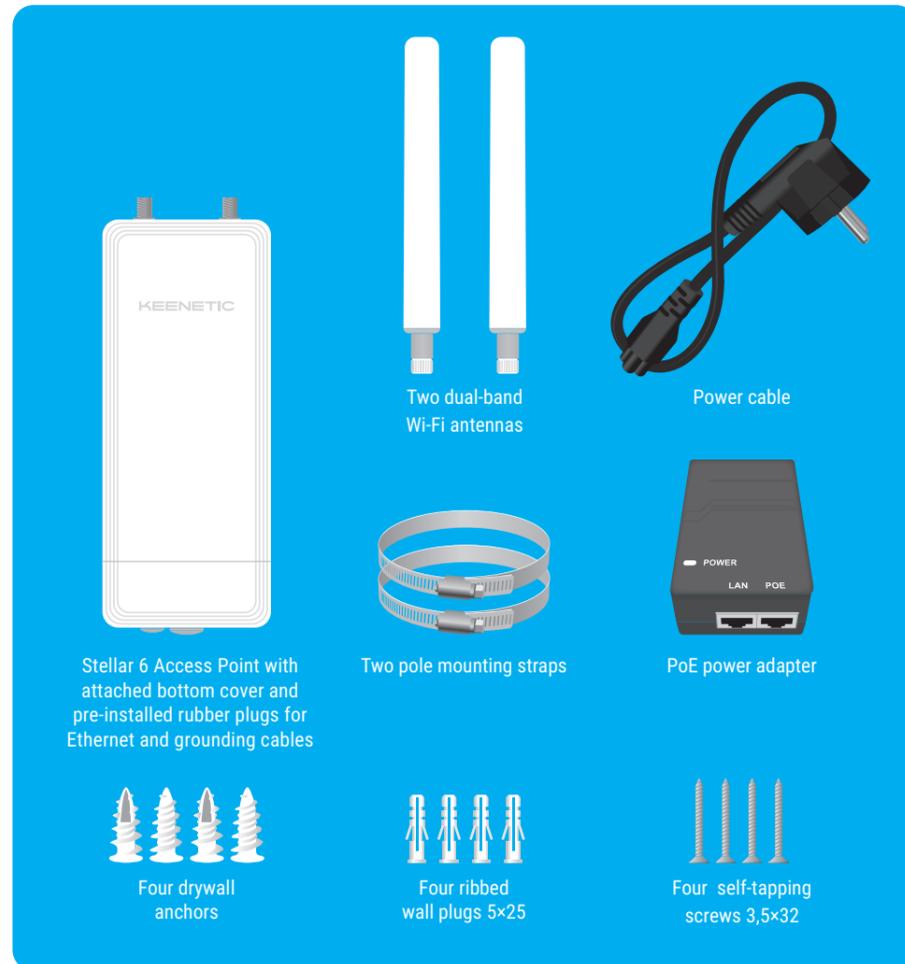
Overview

1. Status LED

Blinking green — The Keenetic Stellar 6 Access Point (hereinafter 'Keenetic Access Point', 'Keenetic device') is starting up or updating its operating system.
Solid green — Internet connection is available.
Solid orange — No Internet connection.
Blinking orange — Wi-Fi Protected Setup (WPS) session in progress.
Off — Off.

2. Wi-Fi Antennas

Two omnidirectional dual-band Wi-Fi antennas.

3. Wi-Fi Antenna Connectors

Two RP-SMA connectors for Wi-Fi antennas. Screw the antennas on and tighten them by hand until they stop. Do not overtighten and do not use tools. The recommended antenna orientation is vertical.

If necessary, you may connect, via the RP-SMA connectors, a directional MIMO antenna (sold separately). Position directional antennas in accordance with their documentation.

Note: When using an external directional antenna, keep the RF coaxial cables as short as possible, with a maximum length of 1 metre.

4. Grounding Terminal ⏚

To protect against surge overvoltages (including those caused by lightning) and electrostatic discharge (ESD), connect the Access Point's grounding terminal to the site grounding system using a suitable grounding conductor that complies with local installation requirements.

5. Network Port 0 — PoE

The Ethernet port can be connected either to the PoE port on the supplied PoE adapter or to a PoE switch. It is compatible with PoE devices that supply 48 V of passive PoE or 802.3at PoE+ power and data via a single Ethernet cable.

For outdoor installations, use a UV-resistant, outdoor-rated Cat5e (or better) Ethernet cable. Install a Gigabit PoE surge protector (not included) at the building's entry point or in the first indoor patch panel. Position it inline between the outdoor cable and the PoE adapter or PoE switch. Make sure that the surge protector is properly bonded to the building's electrical grounding system.

6. Pinhole Reset Button ↻

Pressing it once — Starts a Wi-Fi Protected Setup (WPS) session on the 2.4 GHz band.
Pressing it twice — Starts a Wi-Fi Protected Setup (WPS) session on the 5 GHz band.
Pressing and holding for 10 seconds — Restores the original factory settings and resets the administrator password.
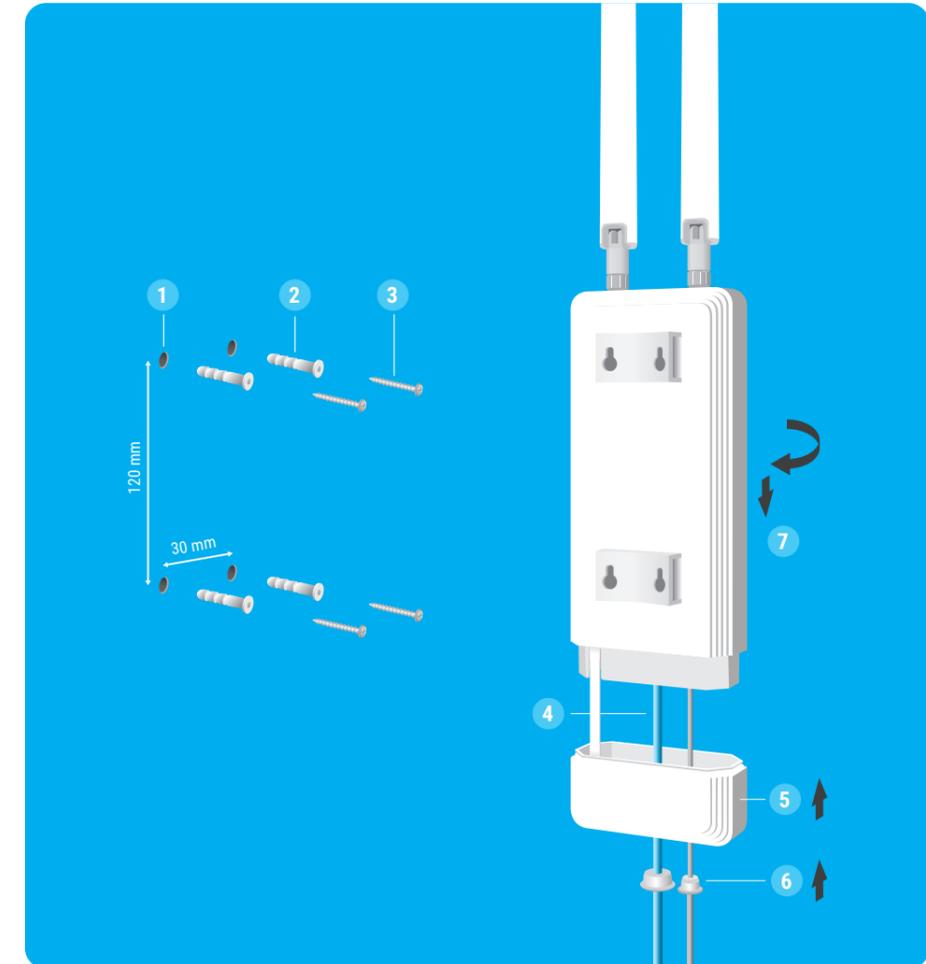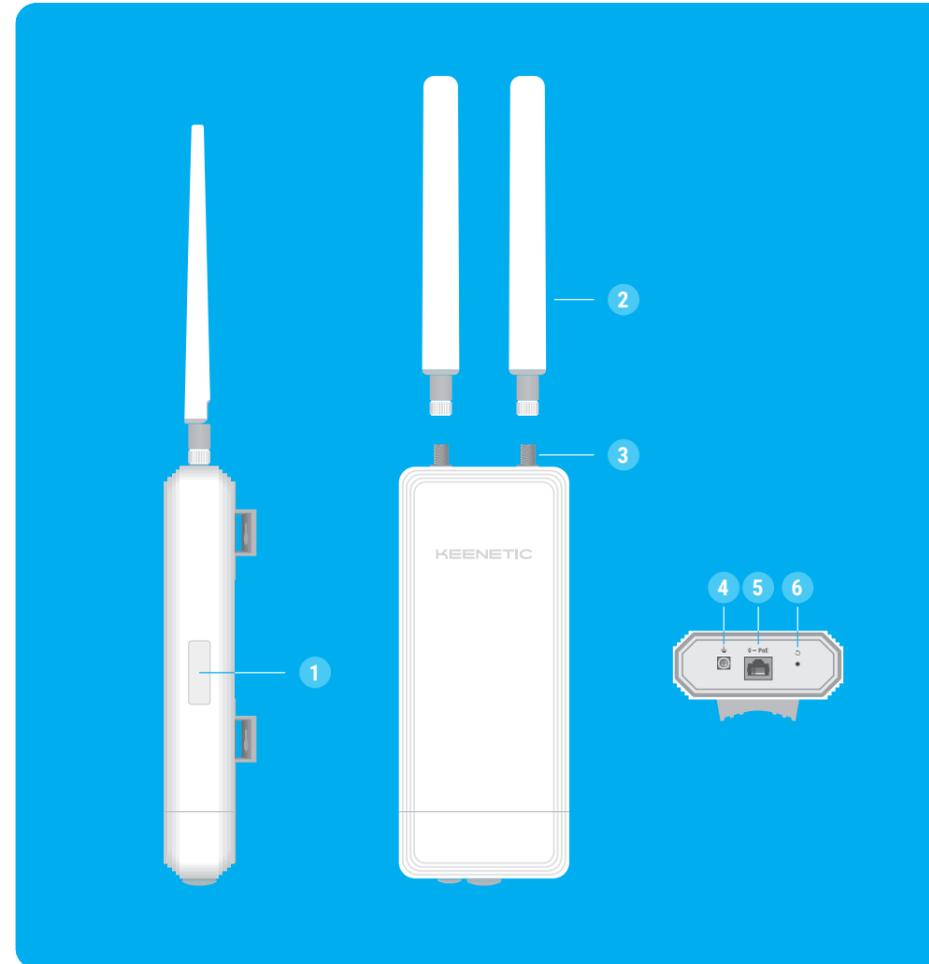
Mounting Options

This Keenetic Access Point can be mounted on a wall or pole using the provided mounting kit and metal straps. Before installing the Access Point, remove the rubber plugs for the Ethernet and grounding cables. Then, remove the bottom cover by gently tilting it and pulling it downwards. Take care not to apply excessive force to avoid tearing the inner strap.
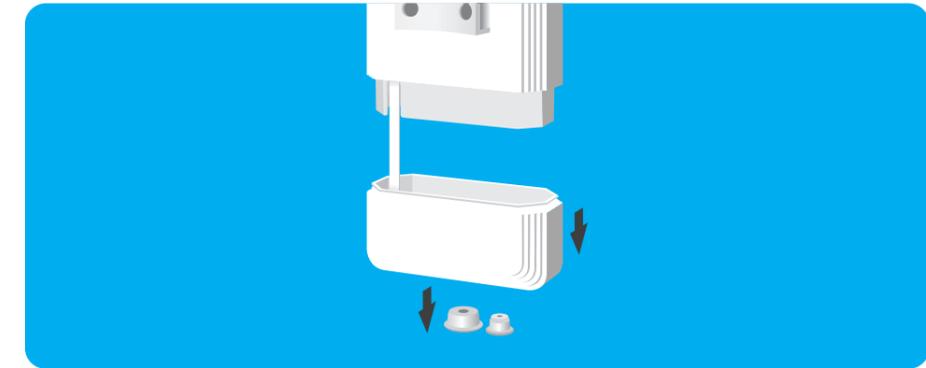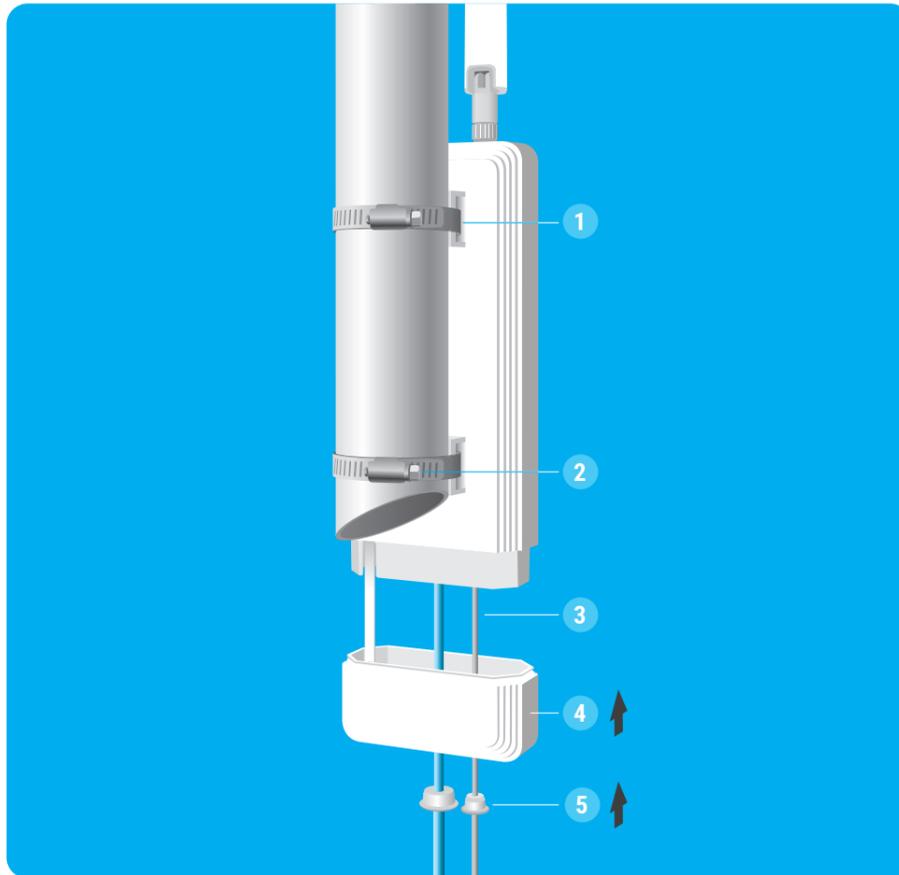

Mounting to a Wall

1. Mark the four fixing points on the wall: 30 mm apart horizontally and 120 mm apart vertically. Drill a 6 mm diameter hole at each marked position.
2. Insert the ribbed plastic wall plugs into the holes. For drywall surfaces, screw in the drywall anchors with a screwdriver until they are flush with the surface.
3. Drive the self-tapping screws into the wall plugs/anchors, leaving approximately 5 mm of the screw protruding from the surface.
4. Route the Ethernet and grounding cables through the dedicated openings in the bottom cover, then connect them to the Access Point.
5. Slide the bottom cover upwards onto the main body until it is fully seated and secure.
6. Use the supplied rubber plugs to seal the openings around the Ethernet and grounding cables.
7. Hang the Access Point on the screws.

Package contents

Stellar 6 Access Point with attached bottom cover and pre-installed rubber plugs for Ethernet and grounding cables

Two dual-band Wi-Fi antennas

Power cable

Two pole mounting straps

PoE power adapter

Four drywall anchors

Four ribbed wall plugs 5×25

Four self-tapping screws 3,5×32

Mounting to a pole

1. Thread the metal straps through the mounting slots on the back of the Keenetic Access Point.
2. Position the access point against the pole. Wrap the straps around the pole and lock and tighten them with a screwdriver.
3. Route the Ethernet and grounding cables through the dedicated openings in the bottom cover and connect them to the Access Point.
4. Slide the bottom cover upwards onto the main body until it is fully seated and secure.
5. Use the supplied rubber plugs to seal the openings around the Ethernet and grounding cables.


Standalone Installation

If your network only requires a few Wi-Fi access points, you can configure and manage them separately via their Web Interfaces.

Wired Connection

1. Power up and connect the devices as shown in the topology diagram. Ensure that a DHCP server (e.g. a router with DHCP enabled) is active to assign IP addresses to network devices. Check that the **Status LED** on the Keenetic Access Point is solid orange or green.
2. Connect a mobile device / computer to the router network.
3. To configure the settings, first open the router's user interface to determine the IP address assigned to your Keenetic Access Point. This can usually be found under the 'Connected Devices' or 'DHCP Clients' section. Then enter this IP address in your web browser to open the Keenetic Access Point Web Interface. The Initial Setup Wizard screen will appear. Follow the instructions to set up your Keenetic Access Point.

Note: If your network does not include a DHCP server, the Keenetic Access Point uses its default IP address: 192.168.1.3

Router   PoE Switch   Stellar 6
                or PoE Adapter
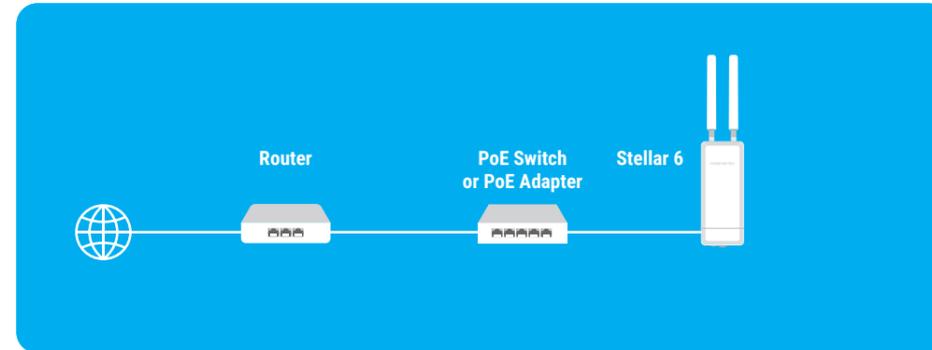
Wireless Connection

1. To set up this Keenetic Access Point as a Wi-Fi range extender or Wi-Fi Bridge, make sure it is within range of the required Wi-Fi network.
2. Using a thin object, such as a paper clip, a pen tip, or a pencil, press the **Pinhole Reset Button** ↻ on the Keenetic Access Point once to connect on the 2.4 GHz band, or twice to connect on the 5 GHz band. The **Status LED** will start blinking orange.
3. Within 2 minutes, launch the Wi-Fi Protected Setup on your wireless router. Usually it's done by pressing a dedicated button, refer to your router's manual for details.
4. The Keenetic Access Point will apply your wireless router's Wi-Fi access point name and password. Upon a successful connection, the **Status LED** will turn steady green.
5. Follow to steps 2 and 3 of the Wired Connection section.

Installation with Controller — Mesh Wi-Fi System

If your network uses a Keenetic as the Main Router and controller of a Mesh Wi-Fi System, add your Keenetic Access Point to the system for centralised, controller-based management and monitoring.
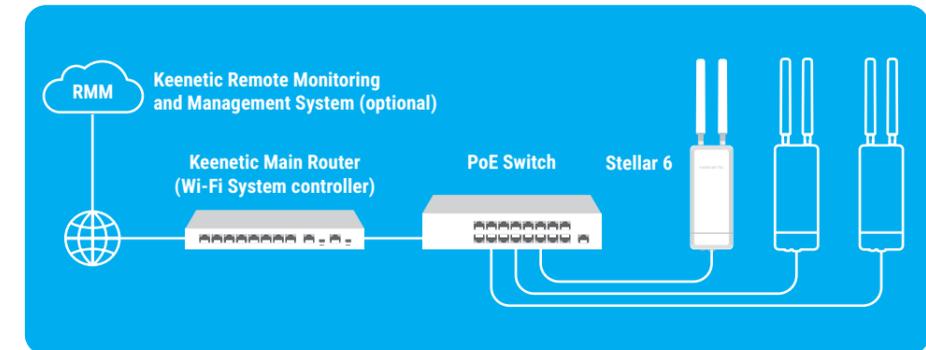
Keenetic RMM is a cloud-based, multi-site remote monitoring and management solution designed for small and medium-sized businesses to help keep critical networks and infrastructure online 24/7. Visit **rmm.keenetic.com** to learn more.

Wired Connection to Controller

1. Power up and connect the devices as shown in the topology diagram. Check that the **Status LED** on the Keenetic Access Point is solid orange or green.
2. Connect a mobile device / computer to your Keenetic Main Router network.
3. Launch a web browser and go to **my.keenetic.net** and log in to the Main Router or launch the **Keenetic mobile application**. Then select the **Wi-Fi System** section and click **Acquire** to add Keenetic Access Point to your Wi-Fi System. Wait for the process to complete.

Note: If Keenetic Access Point does not appear on the Wi-Fi System page, follow the instructions for resetting Keenetic Access Point in the Frequently Asked Questions section.

RMM   Keenetic Remote Monitoring
      and Management System (optional)

      Keenetic Main Router   PoE Switch   Stellar 6
      (Wi-Fi System controller)

Wireless Connection to Controller

Add the Keenetic Access Point to your Wi-Fi System as described above. Then disconnect the Access Point from the wired network and install it within the coverage area of the wireless network managed by the Keenetic Main Router. When the connection is successful, the **Status LED** will be solid green.

In this configuration, the Access Point connects to the Wi-Fi System via a wireless backhaul link. You can connect another wired network device to the Access Point's **Network Port 0 — PoE** via the PoE adapter or PoE switch to further expand the network.

Frequently Asked Questions

What should I do if I can't add an Access Point to the Keenetic Mesh Wi-Fi System?
Restore the factory settings of your Keenetic Access Point (see below), and repeat the procedure of adding it to the Mesh Wi-Fi System.

What should I do if I can't access the Internet with my Keenetic Access Point?
1. If the **Status LED** on the Keenetic Access Point is steady orange:
   - Check if your main router is on and operating normally and has access to the Internet.
   - Check the Ethernet cable.
2. If the **Status LED** on the Keenetic Access Point is steady green, make sure that your mobile device / computer is connected to the right Wi-Fi network and set up to obtain an IP address and DNS servers automatically.

What should I do if I forget my Web Interface page password?
To create a new password, please follow the instructions to restore the factory settings on your Keenetic Access Point in the question below.

How do I reset/restore the original factory settings?
Make sure that your Keenetic Access Point is connected to a power supply. Press and hold the **Reset Button** ↻ for 10 seconds until the **Status LED** begins to blink green rapidly. Then release the button and wait while the Access Point restarts.

Important: After restoring factory settings, you will need to add the Keenetic Access Point back to your Mesh Wi-Fi System or manually reconfigure it.

Safety Instructions

- While the Keenetic Access Point is designed to be used outdoors, its PoE power adapter must always remain indoors.
- Your Keenetic device and its PoE power adapter contain no user-serviceable parts — DO NOT OPEN.
- Never use your Keenetic device in an enclosed space, and ensure that the Keenetic-supplied power adapter is always easily accessible.
- Do not immerse your Keenetic device in water, keep away from excess heat.

Environmental Conditions

- Keenetic Access Point operating temperature range: -40 to +65 °C.
- Keenetic Access Point operating humidity: 10 to 95% non-condensing.
- PoE power adapter operating temperature range: 0 to +40 °C.
- PoE power adapter operating humidity: 20 to 95% non-condensing.
- Storage temperature range: −30 to +70 °C.
- Storage humidity: 10 to 95% non-condensing.

Certification Information

CE

Keenetic Limited hereby declares that this device is in compliance with all relevant provisions of directives 2014/53/EU, 2009/125/EC, and 2011/65/EU. Details of the original EU declaration are available at **keenetic.com** on the specific model pages.

This device complies with EU radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 cm between the antennas and a person's body.

The frequency and the maximum transmitted power for your device, per the requirements of the EU, are listed below:

2400 − 2483.5 MHz: 20 dBm;
5150 − 5350 MHz: 23 dBm;
5470 − 5725 MHz: 30 dBm.

This device will support DFS and TPC functionality while operating in the 5 GHz band.

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

This device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range (channels 36 − 64).

Per (EC) No 1275/2008, the power consumption in networked standby if all wired network ports are connected and all wireless network ports are activated is 5,1 W.

This device can be used across EU member states.

Device Warranty

For the most up-to-date Warranty Information, please visit our website, **keenetic.com/legal**.

Your Keenetic device comes with a non-transferable 3-year warranty from the documented date of purchase (including your 2-year European Limited Warranty). Valid claims in case of a defect will be honoured subject to local legal requirements.

Notice

When you use your Keenetic device (including when you connect your Keenetic device the first time), Keenetic Limited will process certain personal data about you, e.g., service tag, serial number, model name, software version, and IP address of your Keenetic device.

For more information, please go to **keenetic.com/legal**.

If you are in the European Union / European Economic Area, Keenetic GmbH will process certain personal data about you, e.g., service tag, serial number, model name, software version, and IP address of your Keenetic Router. Please read our Device Privacy Notice for the European Union / European Economic Area at **keenetic.com/legal**.

Disposal

In accordance with European directives, your Keenetic device, including the power adapter and cables may not be disposed of with general household waste. Consult your local authority or your supplier for information about disposal.