Quick Installation Guide

Wi-Fi Socket Range Extender N300 & Wi-Fi Socket Range Extender N300 + USB Charger

Positioning your Wi-Fi socket
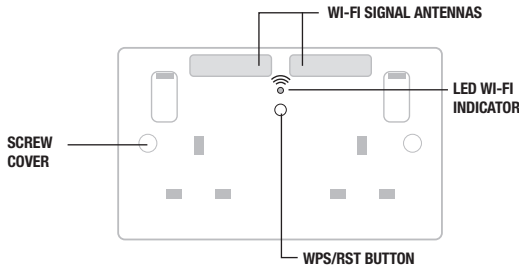
Your Wi-Fi socket should be positioned half way between your router and the Wi-Fi dead-zone
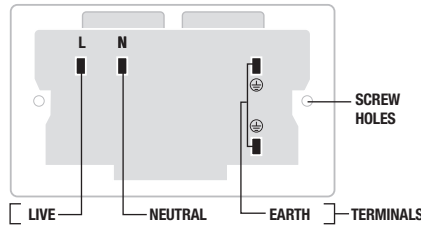Use the signal strength indicator on your mobile device to determine the mid-signal point

Choose a location away from Bluetooth devices and other household electronics (cordless phone, microwave oven, baby monitor, etc.) to minimise signal interference.
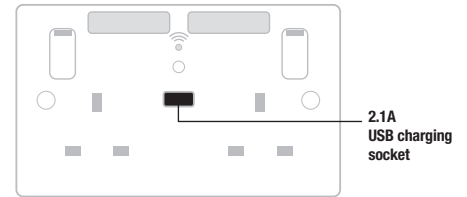
Product overview:

Wi-Fi Socket Range Extender

WI-FI SIGNAL ANTENNAS
LED WI-FI INDICATOR
SCREW COVER
WPS/RST BUTTON

Rear of Socket

L   N
SCREW HOLES
LIVE   NEUTRAL   EARTH   TERMINALS

Wi-Fi Socket Range Extender + USB Charger

2.1A USB charging socket

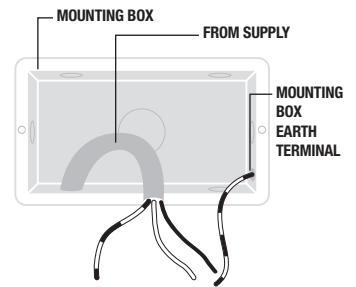## Wiring Instructions:

1 Power off

BEFORE COMMENCING WORK ALWAYS ISOLATE THE POWER AT THE CONSUMER UNIT / FUSE BOX.

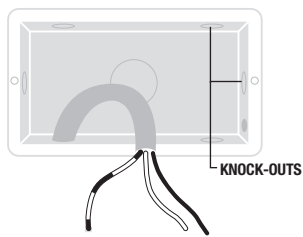

OFF

2a Replacing an existing socket (removal)

1. Unscrew the socket from the wall/mounting box.

2. Note the cable connections: There will generally be three different wiring configurations, this illustration shows a single wire of each colour connected to each terminal (there could be two or three wires of each colour connected to each terminal) + an additional connection between the mounting box earth terminal and the socket earth terminal.

3. Unscrew each terminal to release the wires.

- **EARTH** = Green & Yellow sleeving
- **NEUTRAL** = Blue (Black pre Apr 04)
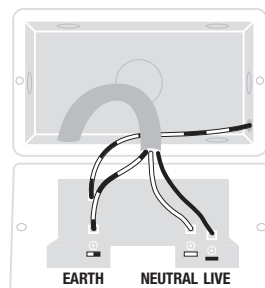- **LIVE** = Brown (Red pre Apr 04)

MOUNTING BOX
FROM SUPPLY
MOUNTING BOX EARTH TERMINAL

OR

2b New installation

KNOCK-OUTS

1. Install mounting box (metal or patress) for either flush or surface mounting, ensuring appropriate size of product. (mounting box to be purchased separately)

2. Select the most suitable entry point of the mounting box (knock-out) and route the supply cable through.

3. Cables should be prepared so a sufficient conductor length reaches the terminals. Strip the ends of the individual conductors leaving an adequate length bare to enter terminals.

- **EARTH** = Green & Yellow sleeving
- **NEUTRAL** = Blue (Black pre Apr 04)
- **LIVE** = Brown (Red pre Apr 04)

3 Wire up your socket

EARTH   NEUTRAL   LIVE

1. Line up the new socket to mounting box and take note of where each terminal is located.

2. Connect each wire to the matching terminal. (refer to key in step 2)

An earth connection should always be made between the mounting box earth terminal and the socket earth terminal.
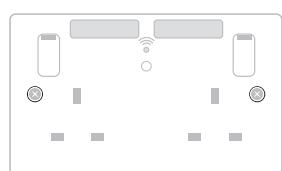
Make sure no copper wire is exposed & that only the bare end enters the terminal.

3. Tighten terminal screws securely. (do not over tighten)

4 Complete the installation

1. Carefully position the accessory into the mounting box, ensuring that no wires are trapped between the plate and the wall and secure with screws (do not over tighten) then set screw covers in place (optional).

2. Once installation has been completed correctly, replace the fuse for the circuit, switch the power back on at the consumer unit and test.

ON

USB Charger information:

2.1A USB port for charging mobile devices such as mobile phones, MP3 players and tablets.

2.1A 5V output from the USB output

- 2.1A is sufficient power output to charge the majority of USB products.
- The total output current achieved is dictated by specific device being charged and other external factors, such as the quality of charging cable being used.
- Overload protection for connected devices.

Low energy stand-by mode

- When not in use the USB socket is in a low energy stand-by mode.

The USB circuits on this socket are designed to withstand insulation resistance tests at 500V. A reading of 0.4Ω +/-0.05 is typically caused by the USB socket

Note - The front surface of this product may become warm in use. This is normal and not cause for concern.

Wi-Fi socket setup instructions:

Ensure that your Wi-Fi socket is connected to the power supply as per **'Wiring instructions'** (see reverse).
After the initial power up the LED indicator will illuminate with a solid blue light. After a short period of time the indicator will then start to blink and the product will then be ready for set-up
Proceed with your preferred method of connection:

Wireless setup

There are three installation methods to connect to the Wi-Fi socket;
- Web browser – Using your computer, smart phone or tablet's internet browser (Safari, Chrome, Firefox, Edge, Internet Explorer).
- QR code – Scan the QR code to take you directly to the setup page.
- WPS (Wi-Fi Protected Setup) – One touch setup, no configuration needed.

QR code setup

- On your smartphone or tablet, connect to a new Wi-Fi network called "BG" (no password is required).
  - *Note: if the BG network is not showing, please reset the Wi-Fi socket.*
- Scan the QR code.

- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set Local & Internet SSID as the same" is ticked.
- This will change the BG network name to match your current router network name.
- Click 'Next'.
  - *Note: Should you need to change the network encryption mode, choose from the drop-down menu. Default is WPA2-PSK. Refer to your router handbook for further details.*
- Click 'Apply'.
- The Wi-Fi socket should show a solid blue LED, and is now ready to use.
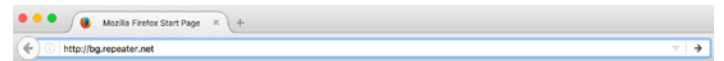- Your devices will connect using your existing Wi-Fi network name.

Web browser setup

- Connect to a new Wi-Fi network called "BG".
  (no password is required)
  - *Note: if the BG network is not showing, please reset the Wi-Fi socket.*
- Enter **http://bg.repeater.net** into your browser search bar.

- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set Local & Internet SSID as the same" is ticked. This will change the BG network name to match your current router network name.
- Click 'Next'.
  - *Note: Should you need to change the network encryption mode, choose from the drop-down menu. Default is WPA2-PSK. Refer to your router handbook for further details.*
- Click 'Apply'.
- The Wi-Fi socket will show a solid blue LED, and is now ready to use.
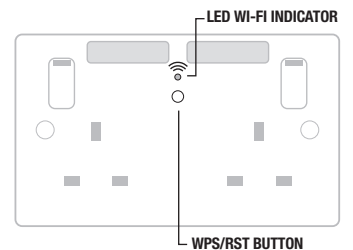- Your devices will connect using your existing Wi-Fi network name.

OR

WPS (Wi-Fi protected) setup

- Press and hold the WPS button on your router for 5 seconds.
  - *Note: WPS connection may differ for each manufacturer, please refer to your router handbook for your specific WPS connection method.*
- Press the WPS/RST button once on the Wi-Fi socket.
- The LED will blink orange whilst connecting to your router.
- Once connected, the LED will light solid blue.
- Your devices will connect using your existing Wi-Fi network name.

Resetting your Wi-Fi socket:

- Press and hold the WPS/RST button on the front of the Wi-Fi socket for 5 seconds
- The LED will blink amber/blue and then extinguish.
- Wait for a blue blinking LED to return
- Your Wi-Fi socket is now ready to setup

Turning off the Wi-Fi function (holiday mode)

- Press the WPS/RST button 3 times to turn off the RF (Wi-Fi) signal.
  The LED will extinguish.
- To turn the functionality back on, press the WPS/RST button 3 times.
  The LED will show solid blue and Wi-Fi connectivity will be restored.
  - *Note: The 13A socket outlets work independently and are unaffected by holiday mode.*

Setup advice & how-to guides

Visit **www.bgelectrical.uk/wifi** for additional support.

FAQ's

The "BG" network is not showing in my list of networks?
A: Please reset your Wi-Fi socket (Refer to the **'Resetting your Wi-Fi socket'** section) then try again.

*I can't see the login page after typing **http://bg.repeater.net** in the browser, or by scanning the QR code?*
A1: Make sure your computer/phone/tablet is connected to the "BG" Wi-Fi network.
A2: Ensure your Wi-Fi socket is connected to the power and the blue LED indicator is lit. Once connected, reset the socket.

How do I reset the Wi-Fi socket?
A: Refer to the **'Resetting your Wi-Fi socket'** section.

My router doesn't have a WPS button, what do I do?
A: Please use the **'Web browser'** method to setup your Wi-Fi socket.

If you need further assistance you can get in touch with our Technical Helpline on:
+44 (0)3300 249 279 | technical.support@bgelectrical.co.uk