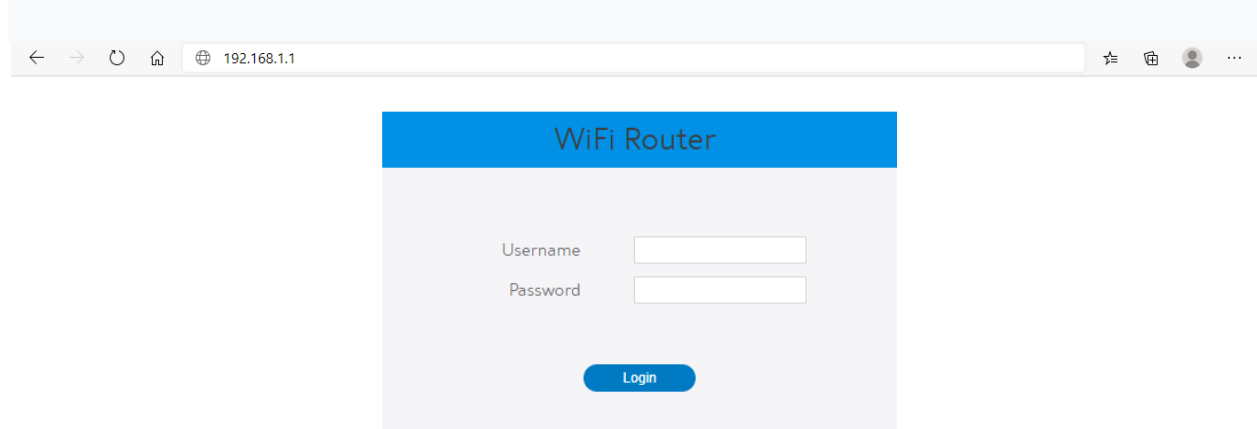


Today most Internet users have several devices that require Wi-Fi connection. If we think of a family home, we could say that on average there are at least 2-3 computers connected to the router, for each person. In the end, the sum can be quite considerable. But what is the limit? Here we explain how many devices can connect to a router and how to manage this limit.

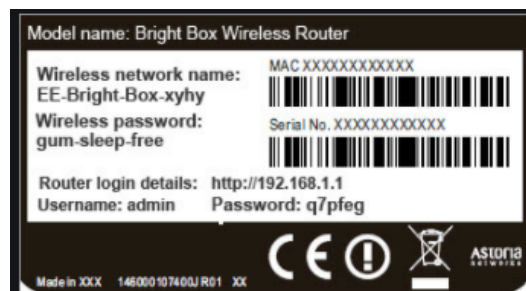
Maximum number of devices connected to a router.

Theoretically, the capacity of a router is measured in the number of IP addresses that it is capable of handling. Therefore, a figure that we could apply as a maximum is that of 253 devices connected at the same time if we use the typical subnet mask 255.255.255.0 and discount the IP used by the router itself. There are routers that allow us to change this subnet mask, and therefore, increase the maximum number of connected hosts, but in a home environment these 253 devices is more than enough, perhaps even somewhat exaggerated.

Routers at times maximum limit of connected devices. This usually comes like this to avoid problems. However we can modify it. How do we change the maximum number of devices connected to a router? This will always depend on the router model we have. The process is very similar for all routers. The first thing we have to do log into the router. We can usually do it through the default gateway 192.168.1.1.



Here it will ask us for the username and password of our router, they usually have it on the back with a label similar to this:



Once we are inside, look for the Wireless option. Perhaps it comes in advanced options, within this section we will see a section called Maximum Clients. There will be a default number in this case that number is 128 but we can put the number we want.

We give the apply button and that's it.

Quick Setting Basic **Advanced** Wizard

Network > Wireless > Basic

Basic WPS ACL Radio Advanced

### Basic

Frequency: 2.4GHz

SSID Enable:  Yes  No

WiFi Network Name: MySpectrumWiFi19-2G

Hide SSID:  Yes  No

Security Setting: WPA2 Personal

WPA Encryption: AES

WiFi Password: praisezeal280

Max Clients: 128

Password Rotation Interval: 3600

Apply

MAC filtering is basically an option to prevent the entry of certain devices to our router. In other words, we can create a white list so that only those computers that we have selected can connect to Wi-Fi and have a connection. Any other device trying to connect couldn't, even if it had the password.

### MAC filtering

1. Go to your [gateway settings](#).
2. Select **Home Network > Mac Filtering**.
3. Enter the **DeviceAccess Code** found on the side of your gateway.
4. From the **MAC Filtering Type** dropdown, select **Enabled/Disabled** for the option you want to enable MAC filtering.

**If the option is to enable this filtering:**

5. In **Mac Filter Entry**, either:
  - Select your devices' **MAC addresses**
  - Enter the **MAC address** in the **Manual Entry** field
6. Select **Add**.

The screenshot shows a network configuration interface with a top navigation bar containing tabs for Device, Broadband, Home Network, Voice, Firewall, and Diagnostics. The Home Network tab is active, and the MAC Filtering sub-tab is selected. The page is divided into three main sections: 1. MAC Filtering Settings: This section has two columns. The left column is for the 2.4 GHz Radio, with Home SSID Filtering and Guest SSID Filtering both set to 'Disabled'. The right column is for the 5 GHz Radio, with Home SSID Filtering also set to 'Disabled'. Below these settings are 'Save' and 'Cancel' buttons. 2. MAC Filter List: A blue banner indicates 'No MAC Filter entries have been defined'. 3. MAC Filter Entry: This section provides instructions to choose from a device list or enter a MAC address manually. It features a dropdown menu for 'MAC Address' (currently showing 'No MACs Found'), a 'Manual Entry' text box with a placeholder 'e.g. 00:01:02:03:04:05', and three checkboxes for selecting the radio band: '2.4 GHz Home' (checked), '2.4 GHz Guest' (checked), and '5 GHz Home' (checked). An 'Add' button is located at the bottom left of this section.

7. Select **Save**.