

## **Berry+ Freedom AC1200 Administration Guide**

This section goes through the web application and the many configuration options that it provides for Berry+ Freedom.

To know how to log in and setup the Berry+ Freedom using web application, please go through the Quick-Install guide that you received with the device.

### **1. Status**

This page shows the following attributes of your Berry+ Freedom:

- Download and Upload speeds
- List of devices connected to the network
- Status of Internet connectivity of Berry+ Freedom
- Network statistics for Berry+ Freedom

### **2. Wizard**

Freedom can connect to internet by two means:

- 1) WAN(Ethernet) - Connecting it to Modem or existing router via Ethernet cable
- 2) 4G/LTE – Connecting to internet using the data plan on the SIM card, you inserted.

WAN Type – Provides you the configuration to connect to internet by either option (1) or option (2) above or using both.

*Recommended Setting:* Both WAN/4G

Access Priority – When WAN Type is set to access internet by both WAN(Ethernet) and 4G/LTE, you can set the first priority of internet access option here.

*Recommended Setting:* WAN(Ethernet)

WAN Type\* - DHCP is a protocol for obtaining IP addresses while PPPoE is a common method of connecting to an Internet Service Provider. You would need to have a username and password with PPPoE while the configuration of DHCP is automatic.

*Recommended Setting:* DHCP

\* determines how you get connected to the Internet Service Provider(ISP); Dynamic IP/Static IP/PPPoE(DSL with username and password)

Mobile Network Mode – Allows you to connect to internet using just 4G network or any available network out of 4G/3G/2G.

*Recommended Setting:* AUTO MODE(4G/3G/2G)

APN Settings – Access Point Name (APN) contains information that's needed to make data connections through your SIM card.

*Recommended Setting:* AUTO

This page also allows you to modify the Wi-Fi SSID and the Wi-Fi password you use to connect to internet.

### 3. Wi-Fi

#### a) *Wi-Fi Configuration*

Smart Connect – As you would probably be aware of, Berry+ Freedom transmits WiFi signals in multiple frequency bands. Enabling this feature will make sure that your wireless device automatically switch to the band with strongest available signal, based on the network demands on the wireless bands. Disabling the feature will let you configure distinct SSIDs for 2.4 GHz and 5 GHz signals, so you can manually connect to either bands, based on your requirements. Please read the FAQs to know about frequency bands. You can setup distinct SSIDs for 2.4GHz and 5GHz channels respectively under Wi-Fi Configuration and also setup/reset your Wi-Fi password from the same screen.

*Recommended Setting:* Turn Smart Connect On , Security Type: WPA/WPA2 Mix(Recommended). If you have older devices that do not support 5GHz connections, or devices that use less bandwidth, Either a) Turn Smart Connect Off and have distinct SSIDs or b) Connect the older device to BerryPlusMesh\_Connect signal

#### b) *Mesh Network*

Allows you to view or manage all your mesh nodes if you setup Berry+ Freedom as a mesh with more than one node.

“Add Extender” section allows you to manually add/pair an additional node to your mesh network using its MAC address(shown on the sticker beneath the mesh node).

#### c) *TouchLink*

TouchLink – Turn on TouchLink functionality, configure a time from 30s to 200s. This time refers to the time when the blue light flashes after the top cover TouchLink function is triggered with a touch of your palm. During the period when the blue light flashes slowly, the SSID mentioned on this page(with the suffix "\_Connect") can be connected without password. You can also delete the guest devices from the list if you do not want the router to remember that device for subsequent connections.

*Recommended Setting:* Turn TouchLink On, Timer: 120

**d) Region Settings** – Configure country/region where your Berry+ network devices are connected. Select “Global” if you do not see your county/region.

**e) 2.4G Settings** – Selecting standard “11b/g/n Mixed Mode” will broadcast a signal that is compatible with devices that run in either B, G, or N mode.

*Recommended Setting:* Standard: 11 b/g/n Mixed Mode, Wi-Fi Channel: AUTO, Channel Width: 40MHz, Beacon Interval: 600, Short GI: On

**f) 5G Settings** – VHT modes mean Very High Throughput mode that is supported with 802.11ac standard. DFS setting enables/disables a Berry+ node to detect radar signals and switch its operating frequency to prevent interference. This process ensures that radar systems send and receive accurate information.

*Recommended Setting:* Standard: 11 a/n Mixed Mode, Wi-Fi Channel: AUTO, Channel Width: 20 MHz, Beacon Interval: 600, Short GI: On, DFS: On

## 4. Setup

**Internet Settings** – DHCP is a protocol for obtaining IP addresses while PPPoE is a common method of connecting to an Internet Service Provider. You would need to have a username and password with PPPoE while the configuration of DHCP is automatic.

*Recommended Setting:* WAN Type: DHCP(Dynamic IP), DNS: Obtain DNS automatically, MAC clone: Default

**DHCP Settings** – Enable/Disable Dynamic IP allocation and set DHCP lease time. Lease time is the amount of time in seconds, a network device can use an IP address in a network. 24 hours(86400 seconds) is the default value.

*Recommended Setting:* DHCP: Default

**Client List** – This page shows all the devices(online/offline) connected to your network.

**QoS Settings** - QoS router setting does allow you to create rules that tell your router which devices or applications should get priority when it comes to the bandwidth of your home internet connection.

*Recommended Setting:* Turn on QoS only if you know what you are doing

**USB Storage** – You can connect a USB storage device to the USB port on your router and access it as a shared storage across all your devices in LAN. Access the storage on Windows, by typing \\192.168.10.1 on your explorer bar. On Macintosh and Linux systems, open the Finder application and type in smb://192.168.10.1

**DDNS** - The Dynamic Domain Name System (DDNS) is a service that assigns your device a fixed domain name even though you are using a dynamic Internet IP Address.

*Recommended Setting:* DDNS: OFF

**Network Tools** – This page has settings for port forwarding for your gaming needs.(NAT, DMZ, or UPNP)

*Recommended Setting:* Virtual Server: Disable

**Security Management** – This page allows you to configure your network's firewall settings. Change the default settings only if you really are aware of what you are doing.

*Recommended Setting:* Default/Factory Settings

**Time Settings** – As the settings name suggests, this page provides all the options to set the time on your Mesh.

**LED Control** – This setting allows you to toggle the LED status lights on your router

**Login Password** – This setting allows you to change the login password to your Berry+ Mesh System (the password that allows you to login to the web application)

**Backup/Restore** – This page allows you to either backup your current network configuration or restore an already backed up configuration or reset your Berry+ Network Settings to factory defaults.

*Upgrade Firmware* – Download the firmware file. Click on “Upgrade” button in front of the node you would like to upgrade. “Choose File” and browse to the firmware file downloaded and “Apply”. The node will be on the upgraded firmware after a network restart.

*Device Status* – Shows you all vital statistics for your network.

*Logout* – Sign out from the application

*Device Reboot* – This setting allows you to reboot your router when it is online