

Reliawave MCPE Quick Start Guide

1. Plug power into the DC Injector and connect with a patch cable to the MCPE's Ethernet port. Unit will power up with 2 green LED's or 2 green and 2 red if unit links with AP.

Note: switch is used to change from strait to cross over cable

2. To configure, setup local PC system on network 192.168.1.*
3. Default IP address of MCPE is 192.168.1.99, login "admin" and password "admin"
4. Open web browser and enter address <http://192.168.1.99>

Status Page

Information

The Bridge's MAC address, IP addresses and firmware version are displayed.

Association

- *SSID*
The Service Set Identifier (SSID) identifies a collection of wireless devices found in a particular network. All stations and access points must use the same SSID to be able to communicate with each others. This shows with which SSID the Bridge is associated.
- *Channel*
The Bridge can operate on a variety of channels. This shows the currently used channel.
- *MAC Address*
This is the MAC address of the device the Bridge is associated with.
- *Transmission Rate*
This is the rate at which the Bridge sends and receives data frames.
- *Link Quality*
This is an indicator of the overall wireless link quality, determined by the combined result of signal strength and signal quality.
- *Signal Strength*
The RF signal strength for all received packets.
- *Noise Level*
The RF noise level for all received packets.

Scan Result

This is a list of available wireless network. For each of them, the SSID, MAC address, channel, signal and mode (Access Point, Ad-Hoc, WEP) are displayed. The user can click on a displayed SSID to associate the Bridge to a particular network.

Note: It is possible that a wireless network does not show up in this list if the access point does not broadcast its SSID.

Wireless Page

Wireless

- *Operating Mode*
Select if the Bridge will work in infrastructure mode (Extended SSID) or in ad-hoc mode (Independent SSID).
- *SSID*
The Service Set Identifier (SSID) identifies a collection of wireless devices found in a particular network. All stations and access points must use the same SSID to be able to communicate with each others. The SSID is a 32-character field, and the value is case sensitive. To connect to any SSID, leave the SSID field blank.
- *Channel*
In Ad-hoc mode, the bridge can operate on a variety of channels (between 1 and 11 in North-America). In infrastructure mode, the Access Point controls which channel is used.
- *Transmission Rate*
The transmission rate controls the "speed" of the wireless network. Select Automatic to have the Bridge negotiate the rate with the Access Point.
- *Access Point Density*
Specify the number of access points near the Bridge to reduce interferences.
 - Low: 1 or 2 nearby access points
 - Medium: 3 or 4 nearby access points
 - High: 5 or more nearby access points
- *Fragmentation Threshold*
This is the size at which packets will be fragmented, and transmitted a piece at a time instead of all at once.
- *RTS Threshold*
This is the packet size at which the Bridge will issue a Request to send before sending a packet.

IP Addr Page

IP Settings

- *IP Address Mode*
This mode determines if the Bridge will attempt to get an IP address from a DHCP server or use a static IP address. In DHCP mode, the Bridge will attempt to get its IP settings (address, subnet mask, and gateway) from a DHCP server. In static mode, the Bridge will use the default settings below.
- *Default IP Address*
This is the IP address used by the Bridge when the IP Address Mode is set to Static.
- *Default Subnet Mask*
This is the subnet mask applied to the default IP address when the IP Address Mode is set to Static.
- *Default Gateway*
This is the default network gateway when the IP Address Mode is set to Static.
- *Device Name*
This is not an IP setting per se, but just a name assigned to the Bridge, making it easier to identify a particular device when several Bridges are connected on a network.
- *MAC Address Cloning*
In this mode, the Bridge will use the MAC Address of a device connected to its wired interface instead of its own.

Hosts Page

This page displays the MAC and IP addresses of the devices connected to the wired interface.

Security Page

Security

- *WEP Enabled*
Enabled the use of WEP to encrypt wireless data transfer with keys of 64 or 128 bits.. In order to use WEP in a wireless network, each device must share one to four of the WEP keys. When WEP is in used, it is advice to also enable the "Deny Unencrypted Data" setting below.
- *WEP Key Length*
This selects the length of the WEP keys, either 64 or 128 bit.
- *Passphrase*
The passphrase can be used to generate WEP keys instead of entering hexadecimal digits in the key fields.
Note: This is not a password and does not provide any security features by itself.
- *WEP Keys 1 to 4*
Enter the WEP keys hexadecimal digits in these fields if not using the pass phrase generation. For 64 bit keys, enter 10 hexadecimal digits for each key. For 128 bit keys, enter 26 hexadecimal digits for each key.
- *WEP Key to Use*
This is the key used to encrypt transmitted data. The receiver must use the same key to decrypt the data.
- *Deny Unencrypted Data*
When this setting is in use, any received unencrypted data will be discarded, whereas when not enable the Bridge will access unencrypted data even if WEP is enabled.
- *Shared Key Authentication*
Enable this type of authentication if the access point requires it.

Admin Page

Administration

- *Bandwidth Throttling*
This setting are used to control and limit the amount of aggregated network bandwidth allowed in both upstream and downstream directions.
- *User Name & Password*
This is used to changed the user name and password required to access this web based configuration interface.
Note: It is strongly recommended to change the user name and password from their factory defaults.
- *Allow Upgrade Uploads*
This setting enables firmware uploads and upgrade. It is strongly advised to leave this setting off during regular operation of the Bridge.
- *Web Server Port*
This can be used to changed the Bridge's internal HTTP server listening port.
- *Reboot Bridge*
This button reboots the Bridge (but does not affect the settings).
- *Reset to Factory Defaults*
This button resets all the settings to their factory defaults.

LEDs:

RA0 (green): Ethernet link (steady) and traffic (fast blink)

RA1 (green): wlan link (steady) and traffic (fast blink)

RA2 (red): Ethernet collision

RE3 (red): wlan error