

Powerweb Wireless-Router Basic Installation Instructions

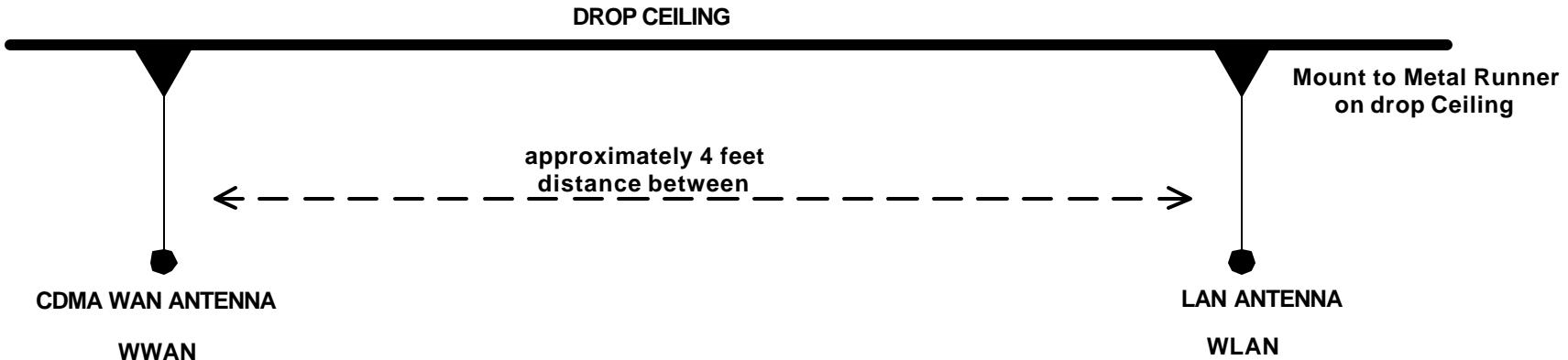
This document covers the basic installation instructions of a Powerweb Technologies wireless router and is intended as a quick refresher for those already trained in installation; it is not intended for more complicated installs or to replace proper training. This device requires professional installation by properly trained personnel.

Steps:

- Pick a location free of excess moisture and high heat. Also attempt to pick a location offering access to power and that is “RF Friendly”. By “RF Friendly” Powerweb means an environment that is not a room shielded with a lot of metal or wires.
- Attach the BNC-connector antenna to the WLAN (Wireless Local Area Network) onto the back BNC connector. **Note: For best operation and to insure professional installation, please use the BNC-connector-antenna approved and supplied by Powerweb.**
- Attach any other connectors such as to the modem antenna using the TNC-connector antenna. This will establish the WWAN (Wireless Wide Area Network)
- Please insure the antenna mounting follows the guidelines in the attached drawing.
- Plug in the wall-mount power supply and note the operation. A correctly functioning unit will flash the RED led briefly (will stay lit).
- Wait approximately 3 minutes for WWAN signal acquisition. Proper signal will be indicated by CHAN, LINK and REG LED's being lit in addition to the RED light. If you obtain CHAN and LINK but no REG there might be a problem in registration on the network; contact your dealer and insure the unit was registered on the network. If you receive no LINK, then try to re-orient the WWAN antenna and try again.
- Note the IP number for future reference. Go to your internet access and set-up the zones. Attempt a simple zone change and watch carefully for the red led to light indicating WLAN transmission.
- Set up a controller with the same dip-switch setting as the zone address. Again attempt a simple command. See if the controller changes state just after the RED led flashes. If not, verify dip-switch settings and zone address setting. See attached dip-switch chart.

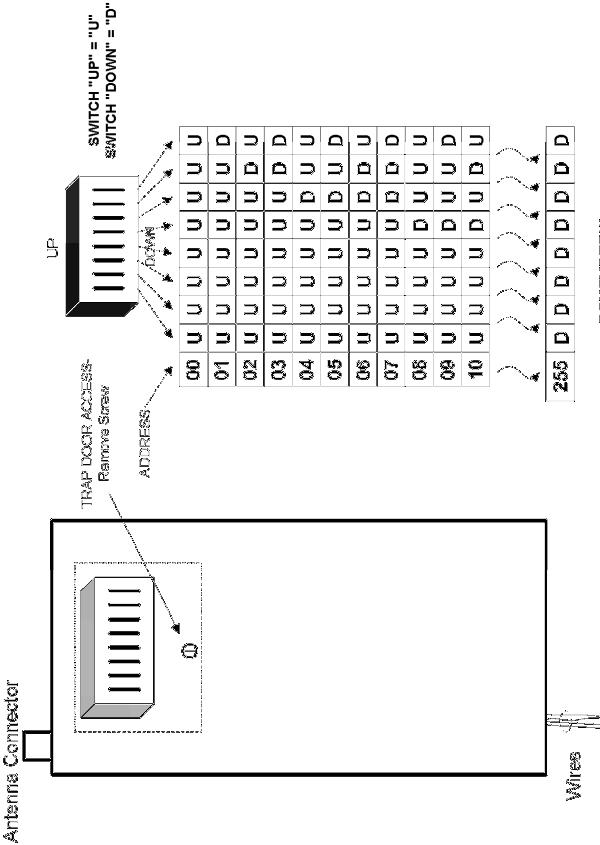
WARNING: (1) Do not install this device in areas where device might come in contact with liquids or explosive gas (2) This device operates under Part 15 of the FCC rules. Any modification to this device not expressly authorized by Powerweb Technologies may void the user's authority to operate this device. This device requires professional installation. Please use only antennas supplied by Powerweb Technologies for this device.

CEILING MOUNT



Note: The above shows one typical installation for a ceiling application. Not all applications can afford this type of mounting.
The general considerations for good radio reception are: (1) Antennas mounted on a good ground plane like a flat or long metal object (2) avoid wires running next to the antennas and avoid metal objects surrounding the antenna [metal underneath is fine] (3) keep antennas as high as possible (4) For CDMA antenna, if reception a problem move near a window and keep antenna vertical if possible (5) Maintain separation if possible between antennas.

POWERWEB CONTROLLER ADDRESS AND DIP SWITCH SETTINGS



NOTES:

(1) Set address to match the website zone-editor dip-switch address (Access via Administration fail). For simplicity, only the more popular of the possible 256 addresses are shown, consult controller Dip Switch table for remainder of addresses.

(2) Address 255 is an easy diagnostic address helpful to verify the local in-building wireless link. Set this 255 address on controller in question, cycle the DPPROC power; controller will respond with "light-on" followed by "light-off" condition (This test does NOT relate to CDMA wide-area wireless link.)

(3) Please be careful to get the orientation of controller correct when setting dip-switches. The easiest and "foot-trodded" method is to hold this drawing adjacent to the controller one wishes to set. For example, let's say one device's address is 2-UUUUUUUU. This is set the same as address 1-8=DUDDDDDDDDDDDDDDD. (Note: If one were to set the dip switch's 'up' or 'down' with the controller oriented "upside-down" (i.e. wherein the top antenna is bottom), in relation to this table.

REMEMBER!:

SWITCH "UP" IS TOWARDS ANTENNA CONNECTOR;
 SWITCH "DOWN" IS TOWARDS WIRES THAT EXIT CASE
 "UP" in table represented by "U"
 "DOWN" in table represented by "D"