

Installation Best Practices

1 Orientation

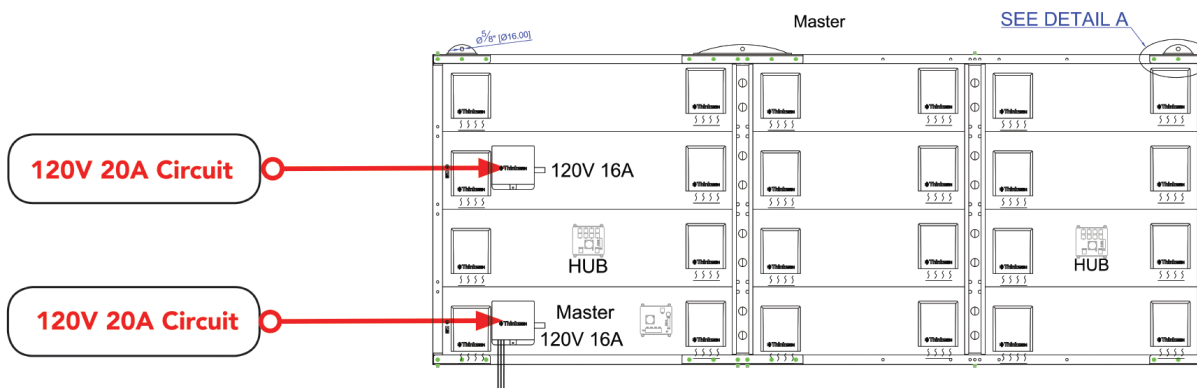
- The Master Cabinet should be oriented so that the right side does not face the street. The message on the Master Cabinet should always face oncoming traffic.
- Double faced sign will have master and slave cabinets. Each cabinet will have a sticker on the side to help you determine which is the master.
- The whips for the brightness, temperature, and wireless bridge connections should always be located on the lowest right corner of the master cabinet (If looking at front of sign).



2 Proper Voltage and Amperage

- LED systems fundamentally step down voltage from AC to DC. Variances in AC are amplified in DC, and those variances can cause problems, and potential damage to system components.
- Low voltage and/or amperage will cause components to act erratically or fail. Ensure you are not only receiving 120V per circuit at the sign location, but the necessary amperage.
- ThinkSIGN follows the NESC and never recommends more than a 20A circuit for a sign. If a sign or sign face requires more than 20 amps, we supply an additional 120V 20A line in.

Example: A 10mm 128x320 sign has a max POTENTIAL amperage draw of 32A per sign face. This requires (2) 20A breakers. Installers/Electricians will find 12 gauge wire inside the provided junction box.



Questions? Contact ThinkSIGN Support: 888-271-6807

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3 Proper Ventilation

- LED displays generate heat which must be dispelled to ensure the longevity and performance of the LED sign.
- Our installation manual outlines a required 1.5" of space on the top and bottom of the sign for proper ventilation.
- Design does not always allow that exact recommended spacing option so the equivalent can be achieved in other locations of the sign structure to ensure proper ventilation as indicated in the image to the left.



Inconspicuous, creative ventilation

4 Earth Ground

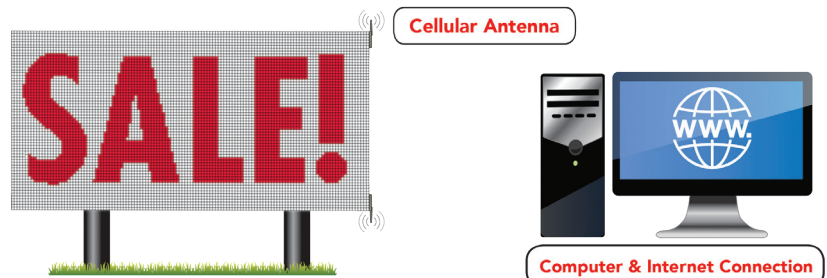
- An Earth Ground helps to keep your sign safe and performing at its best by keeping power surges out of your sign. By grounding your sign to the earth versus the sign pole or concrete support, you are giving it somewhere to go other than back into your sign which could cause significant damage.
- We have provided a Grounding Rod with your sign. It should be connected to the grounding cable, that is already connected to the sign, as tightly as possible and then driven into the ground at least 3ft deep and away from any metal.



5 Communicating with the Sign

Communicating with your sign can be accomplished in a number of ways: wired, wireless, 4G.

- Hard wired via Ethernet or Fiber Optic Cable – Cat 5/6. Must run less than 300 feet for optimum performance with a network switch in the middle to boost the signal.
- Wireless -The best option when you have an LED sign that will be within 100-200 yards of the transmission point with clear path or line of site with not obstructions.
- 4G - Using FAST Verizon 4G LTE We cover over 98% of the US. Safely communicate with your sign from anywhere with an internet connection.



Note: CAT 5 Cables are provided. All necessary cables are located inside the Accessories Box

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