

# Product Specifications



## AXION II ChipFlip SERIES

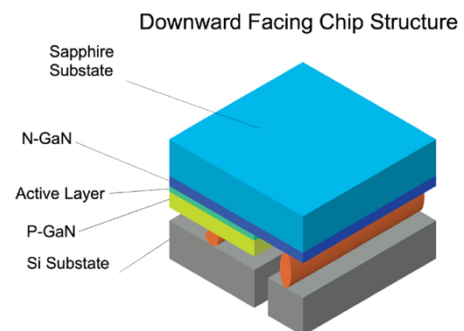
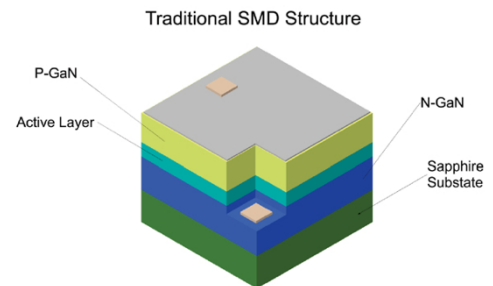
Indoor P0.7 Fine Pixel Pitch LED Display

- 16:9 aspect ratio



### Axion II ChipFlip Features

- “ChipFlip” is a revolutionary new technology of encapsulating fine pixel pitch SMD 1010 LED lamps to PCB boards.
- Traditionally the circuit design for SMD displays for both the Positive pole, the Anode, and the Negative pole, the Cathode, face upwards. However, the circuit design for “ChipFlip” for both the Positive and Negative electrodes face downward and the corresponding encapsulation is called the “ChipFlip” Process.
- The strength of the solder used in the “ChipFlip” Process” is 100 times stronger than that normally used in the SMD process.
- ChipFlip has a failure rate of 5/PPM compared to the failure rate of other SMD at 50-100/PPM.
- The “ChipFlip Process” also employs Common Cathode technology whereby the electric current passes through the Cathode, the negative pole or the ground.
- Power is not on continuously but only draws power as needed. As a result, heat generation is greatly reduced.
- Brightness levels can reach 4000 nits. Typically only outdoor displays can reach those levels.



# Axion Technical Specifications

## Specifications

### Axion II ChipFlip P0.7

#### LED

<u>LED Type</u>	<u>SMD1010</u>
<u>LED Configuration</u>	<u>3 in one</u>
<u>Pixel Density</u>	<u>1,638,400/m<sup>2</sup></u>
<u>Module Size</u>	<u>11.81" x 6.64"</u>
<u>Module Resolution</u>	<u>384 x 216</u>
<u>Modules Per Cabinet</u>	<u>4</u>
<u>Lifetime to Half Brightness (L50)</u>	<u>100,000</u>
<u>Contrast Ratio</u>	<u>10,000:1</u>
<u>Brightness</u>	<u>600-2500 Nits</u>
<u>Viewing Angle</u>	<u>160° x 160°</u>
<u>Minimum Viewing Distance</u>	<u>2.3 ft.</u>

#### CABINET

<u>Aspect Ratio</u>	<u>16:9</u>
<u>Cabinet Material</u>	<u>Die Cast Aluminum</u>
<u>Cabinet Size</u>	<u>23.62" x 13.28" x 2.28"</u>
<u>Cabinet Resolution</u>	<u>768 x 432</u>
<u>Cabinet Weight</u>	<u>17 lbs.</u>
<u>Service Access</u>	<u>Front</u>
<u>IP Rating</u>	<u>IP30</u>

#### INTERNAL OPERATION

<u>Driving Method</u>	<u>1/32<sup>th</sup> Scanning</u>
<u>Gray Scale</u>	<u>14-18 bit</u>
<u>IC Driver</u>	<u>MBI5153</u>
<u>Refresh Rate</u>	<u>&gt;3840Hz</u>
<u>Frame Frequency</u>	<u>60Hz</u>

#### AC POWER

<u>Source Voltage</u>	<u>100-240V, 50/60Hz</u>
<u>Max Power Consumption</u>	<u>165W</u>
<u>Avg. Power Consumption</u>	<u>85W</u>

#### ENVIRONMENTAL

<u>Operating Temperature</u>	<u>-10°C to +50°C</u>
<u>Storage Temperature</u>	<u>-20°C to +60°C</u>
<u>Operating Humidity</u>	<u>20% to 90% RH</u>

#### INTERNAL CONNECTIONS

Axion has no external connections  
100% internal connections inside cabinet

<u>Data in / out</u>	<u>RJ45</u>
<u>AC Power in / out</u>	<u>IEC</u>