



ATG Electronics® oSignage™ X1 LED Modules

USER GUIDE

Part Number

HMZ-X001R-005600-L1

HMZ-X001Y-005600-L1

HMZ-X001B-005600-L1

HMZ-X001G-005600-L1

HMZ-X001N-005600-L1



NOTE:

This user guide is to explain the steps necessary to use the specified and assure peak performance. Its intended use is for reference only, by a fully qualified electrician or technician. This document should never be considered a substitute for any provision of a regulation or state and/or local code.

Please read this entire manual to fully understand and safely use this product.

Specifications are subject to change without notice. Please visit www.atgelectronics.com for most recent user guide versions.

GETTING STARTED

ATG Electronics® oSignage™ X1 LED Module is designed for signage lighting and decoration, both indoor and outdoor are applicable. oSignage™ X1 provides significant energy reductions, less maintenance cost compared with neon lighting.

oSignage™ X1 is square aluminum housing, with 1 High Power LEDs in, and available in solid colors. This thermal management makes the oSignage™ X1 high electrical-optic efficiency.

oSignage™ X1 can be cut at every 3 pcs to fit many applications; installed easily with 3M double-sided tape on the back or mounting holes. oSignage™ X1 is IP65 rated, applicable for dry, wet, damp environment.

Operating on 12VDC low voltage, oSignage™ X1 is a safety luminaries and is compatible with our 12 VDC QDriver™/XDriver™ LED Power Supply. If a dynamic lighting is required, oSignage™ X1 can also be connected with specified dimmer (QColor™ Remote Dimmer).

oSignage™ X1 is well employed for countless proposes such as lighting channel and reverse-channel letters, signs, billboard or advertising board, besides, oSignage™ X1 is also the ideal products for under-cabinet lighting, emergency exit lighting and decoration lighting. It has been successfully used in homes, hotels, restaurants, stores, shops and clubs etc.

This guide contains important information about installing and operating your new oSignage™ X1 LED Module safely and accurately.

Included in this Box

oSignage™ X1 LED Module, 36 PCs
User Guide, 1 Set

Additional Items Needed

Power Supply: 12 VDC QDriver™/XDriver™ LED Power Supply

Unpacking

- 1) Unpack and carefully examine the product.
- 2) Report any damage and save all packing materials if any part is damaged during transport.
- 3) Do not attempt to use this apparatus if it is damaged.

Warnings

- 1) Risk of electric shock. Ensure that the power supply is off when wiring or soldering the sections of the device.
- 2) The device shall be installed and operated by a qualified electrician or technician in accordance relevant local codes.

Cautions

- 1) Suggested continuous working time is around 8 hours, never more than 12 hours.
- 2) Do not use sharp tools near or on the surface of the device.

User Responsibilities

The responsibility of complying with all state and local laws, ordinances, and regulations in regards to the installation, maintenance, and operation of the device lies with the buyer and handler of the device. These parties may include, but are not limited to the contractor, installer, purchaser, owner, and user of the product.

Note:

The instructions and precautions set forth in this user guide are not necessarily all-inclusive, all conceivable, or relevant to all applications as ATG Electronics cannot anticipate all conceivable or unique situations.

PLANNING THE INSTALLATION

This device installation requires planning to ensure timely, successful installation with minimal complications and down time.

Planning Suggestions

Consult an Electrical Inspector to review all wiring plans.
Create a Layout Plan drawing, per a Lighting Designer's or Architect's recommendation.
Consult ATG Electronics Application Engineering Services as needed.

Installation Considerations

When creating your installation plan, consider the following:

- 1) Location of the device

oSignage™ X1 is applicable for dry, wet, damp environment with IP65 degree.

2) Minimum working unit

The minimum working unit is 3 pcs. Only cut at cutting marks.

3) Maximum series-wound quantity

36 pcs.

Installation Steps

1) Remove the 3M tape from the back of oSignage™ X1.

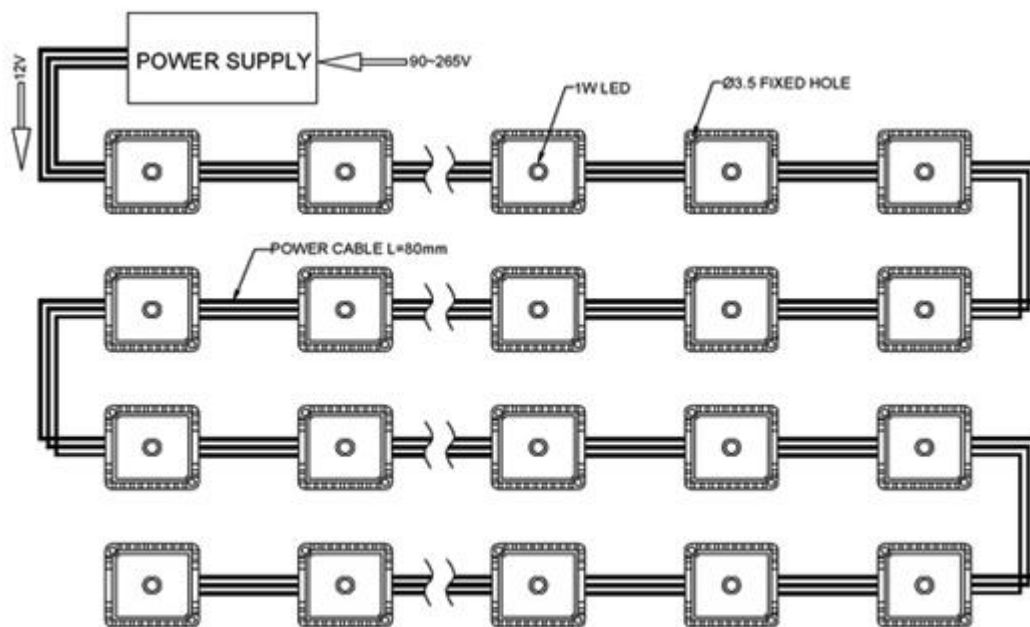
2) Place and fix oSignage™ X1 to the defined area according to project layout.

3) Cut at cutting marks to get your desired length.

4) Connect the power supply to oSignage™ X1.

5) Plug power supply into power outlet to light the whole system.

Wiring Diagram



Maximum series-wound quantity: 36pcs

ATG Electronics® oSignage™ X1 LED Modules Specifications

Operation Voltage: 12 VDC

Color: Red, Yellow, Blue, Green, White

LED Qty: 1 LED

Lumens: 15~60 lm

Power Consumption: 1W

Beam Angle: 120°

Dimension: L38*W31*H12 mm (L1.5*W1.22*H0.47 inch)

IP Rating: IP65 (applicable for dry, wet, damp environment)

* Detailed specifications please refer to the product catalog of oSignage™ X1 LED Modules.

LED SOURCE LIFE

Traditionally, the definition of life for light sources is defined at the point which 50% of the lamps fail under specified conditions. However, all necessary components in a LED lighting system will determine useful life time. According to the industry standard, ATG Electronics uses the concept of useful light output and rates product life time at standard of "less than 50% lumen maintenance of original light output".

LED exhibits very long operational life time, typically 50,000 hours or more. However, like all light source, LED light output can degrades and also undergo gradual shifts in color over time.

LED chips, performed lighting effects and working environmental conditions, such as temperature, humidity, and ventilation will affect LED lumen maintenance. The overall LED Lighting System life time could vary substantially based on usage and environmental condition.

ATG Electronics always adopts brand chips and high quality materials and components to make LED Lighting Systems.

QUALITY WARRANTY

This product is sold pursuant to ATG Electronics Standard Terms and Conditions which can be found at www.atgelectronics.com/warranty and which contain important provisions, including, among others, the Quality Warranty, exclusions and limitations on ATG Electronics liability for damages, and restrictions on available remedial actions.

For any after-sales assistance, please contact our Customer Service Team at service@atgelectronics.com. All your concerns and requests will be handled within 12 hours.

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