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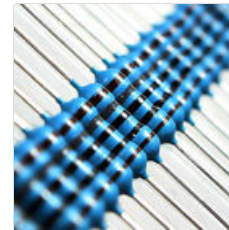
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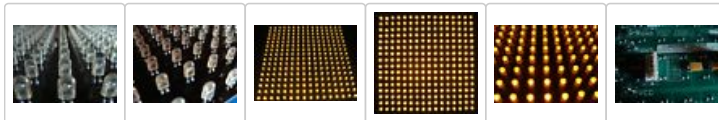

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24 * Ultra Bright 16x16 Amber LED Panels

Item condition: **Used**

"*Items are used and show use of wear but are in functional working condition.*"

Quantity: | 1 | 0 available / **8 sold**

Price: **US $115.00**

Add to list

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Shipping: **$20.90** Expedited Shipping | See details
Item location: **Saugerties, New York, United States**
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Delivery: Estimated within 4 business days

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Returns: Seller does not offer returns. You are covered by the eBay Money Back Guarantee if you received an item that is not as described in the listing.

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Seller information
thaltech (210   )
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| **Description** | **Shipping and payments** |

Print | Report item

eBay item number: 271422812154

Seller assumes all responsibility for this listing.

Last updated on Aug 13, 2014 06:03:02 PDT   View all revisions

Item specifics

| Condition: | **Used :** |
| Seller Notes: | "Items are used and show use of wear but are in functional working condition." |

24 * Tested Ultra Bright 16x16 Amber LED Panels 8 1/4" x 8 1/4" (210mm x 210mm)
256 LEDs / Pixels on a 12mm pitch

Package dimensions 250mm x 250mm x 500mm (approximate) weight 12lbs or ~5.45kg

These boards are an amber only version of the RGB panels I am selling, they are very bright and from commercial outdoor LED displays meant to be visible in direct sunlight.

They consist of 256 pixels at a 12mm spacing (center to center) with two boards that's a total of 512 LEDs in a 16x32 array.

The individual LEDs themselves were manufactured by Agilent/HP (Now Avago Technologies) under the SunPower product line.

To use these panels properly they must be connected to a micro-controller that you have programmed in order for them to work, they use shifted out serial data. The spec sheets for the MBI5026CF 16-bit constant current sink driver will tell you the timings for the data, clock and enable signals. Data is passed from one chip to the next, so to write data to the entire top half of the panel you would shift out 128 bits of data triggering the clock with each bit, and then triggering the latch once all 128 bits have been clocked into the 8 MBI5026CF driver chips.

These boards are very bright, they are from 'direct sunlight readable' LED displays. One board will light up a small room fairly well. The brightness can be controlled with PWM on the Strobe line.

The boards in this lot are in good to very good condition, fully functional and tested, as I process more boards the available number will increase.

They are high performance boards with serial clock speeds up to 25Mhz for serial data shifting. Variable shades of grayscale (amberscale?) are achieved by rewriting each frame multiple times very quickly but, for quarter brightness for example, you would only have an LED on during 1 of those four writes, for half brightness, 2 of those four writes. More shades can be achieved by redrawing each frame a larger number of times, limited only by your desired frame rate and amount of times you can re-write each frame while maintaining the frame rate and the 25Mhz limit of the driver chips.

They can be run on an Arduino and other smaller micro-controllers and prototyping systems, no problem, and you may be able to adapt existing matrix display code to operate these. In the case of these Amber boards you shift data out to the two data input lines (one on each connector) and tie the clock, latch (ENB) and strobe (Output enable), GND and VCC of the two input connectors together.

Here are some specifications:
MBI5026CF 16-bit Constant Current Driver Chips x 16 per board - each chip handles 16 LEDs.
Divided into Upper Half / Lower Half
6-pin 0.1" Input Connector and 6-Pin 0.1" Output Connector per Half
Daisy Chain Boards together

Requires 5 Volt Input on VCC and 3 to 3.3 volts on VLED. A cheap several amp buck converter can be used to convert 5v to the required 3 to 3.3V for each board. You may be tempted to run the VLED off of 5v if you run the PWM on the strobe at a lower percentage, but if your micro-controller locks up you can burn the LEDs up so it's not recommended!

Power Requirements: Full brightness and All LEDs on = ~2.5+ Amps per panel + minimal logic power requirements

2 Serial Data Inputs (Data 1 and Data 2) These are the serial data input lines, 3 lines are required to drive half a panel, 6 for a full panel.
2 Output Enable Inputs can be used with PWM to dim the panel
2 Data Clock Input (Up to 25Mhz) (These can be tied together)
2 Latch Enable input to Latch Data into Registers (These can be tied together)

Input Connectors (two)
 V---Arrow
Pin   Function
1 VCC
2 Clock
3 Data
4 Enable
5 Strobe
6 Gnd

Output Connectors (two)
 V---Arrow
Pin   Function
1 VCC
2 Clock
3 Data
4 Enable

4 Enable
5 Strobe
6 Gnd

The following images and code samples are of the full RGB panels I list from time to time. **These panels are single color amber**, however the code should help with these **amber only panels**.

Code:
Here are some rough Arduino examples for RGB panels (the listed panels are single color amber), this is sample code to give you some ideas, it's not intended to serve any other purpose.

Color Wipe: Fills board with color
Arduino Source: http://pastebin.com/f9J4Thuv

Simple Graphic Display: Use a web editor to edit pixels, paste the data into the code, upload to Arduino
Arduino Source: http://pastebin.com/dMMZAiTj
HTML Edit Source: http://pastebin.com/1XL5cq7V

Video: (The panels shown in the video are RGB panels I sell from time to time, this auction is for single color AMBER panels)
http://vimeo.com/78432845 **Running as Matix Displays**
http://www.youtube.com/watch?v=Mftvpq3UOBY **Running as a DMX Light Panel**

Boards are tested and guaranteed against DOA.

Shipping via USPS Priority Mail / International shipping handled by eBay Global Shipping Program
Handling time states 2 days, I often ship must faster but I cannot promise this so I set it at 2 days, check my feedback!
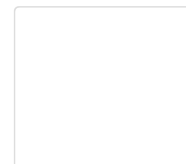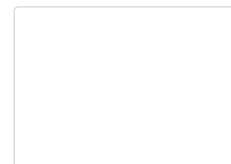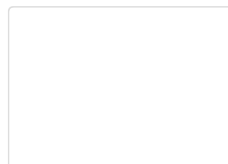
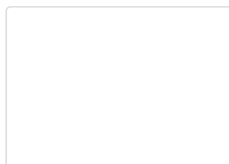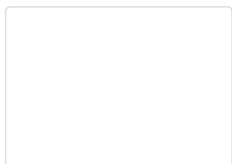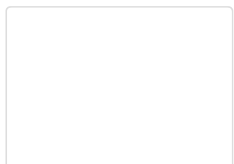Returns are not accepted unless the item is DOA.
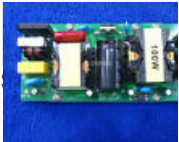

Questions and answers about this item

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