4x4 VGA Matrix Switch with Audio

ST424MX

DE: Bedienungsanleitung - de.startech.com
FR: Guide de l'utilisateur - fr.startech.com
ES: Guía del usuario - es.startech.com
IT: Guida per l'uso - it.startech.com
NL: Gebruiksaanwijzing - nl.startech.com
PT: Guia do usuário - pt.startech.com

For the most up-to-date information, please visit: www.startech.com

Manual Revision: 03/30/2011
FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

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Instruction Manual

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Introduction

Using the ST424MX Audio/Video Matrix, you can transmit audio and video signals to up to four screens, and four sets of speakers. The SmartView AV Matrix also allows you to select between four PC’s when choosing an input signal to transmit.

The ST424MX Audio/Video Matrix is ideal for:

- Test Bench Facilities
- Data Centers
- Help Desks
- Video Broadcasting
- Educational Facilities

Features

- Intelligent functionality
- 350 MHz pixel frequency
- Supports VGA, SVGA, UXGA, and QXGA resolutions.
- Supports Multi-Sinc video types including RGBHV, RGsB and RGBS
- Supports
- Supports
- Four 7-Segment LED’s indicate the status of input ports
- VGA card-compatible output
- Extends video signals up to 65 meters (213 feet)
- 20Hz~20Hz Audio Frequency Response
- Support synchronous Include positive, negative; TTL or 1Vpp level.
- Supports the DDC, DDC2, DDC2B.
- The switches on panel can select PC signal source 1 ~ 4 as OUT 1 ~ 4 or turning off any signal I/O port / all I/O ports
- Can be cascaded
Package Contents
• 1 x SmartView ST424MX Audio/Video matrix
• 1 x User Manual
• 1 x DC 12V 1.25A Power Adapter
• 2 x Rack Rails
• 8 x Screws

Specifications

<table>
<thead>
<tr>
<th>Function</th>
<th>ST424MX</th>
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<tbody>
<tr>
<td>Video Input Connector</td>
<td>4x HD-15 Female</td>
</tr>
<tr>
<td>Video Output Connector</td>
<td>4x HD-15 Female</td>
</tr>
<tr>
<td>Audio Input Connector</td>
<td>4x 3.5 Stereo Jack</td>
</tr>
<tr>
<td>Audio Output Connector</td>
<td>4x 3.5 Stereo Jack</td>
</tr>
<tr>
<td>Select Switch</td>
<td>10</td>
</tr>
<tr>
<td>7-Segment LED</td>
<td>4</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>1920x1440 @ 85 Hz</td>
</tr>
<tr>
<td>Pixel Frequency</td>
<td>350 MHz</td>
</tr>
<tr>
<td>Cable Distance (Device to</td>
<td>65m (213 feet) Max.</td>
</tr>
<tr>
<td>Monitor)</td>
<td></td>
</tr>
<tr>
<td>Power Adapter (Min.)</td>
<td>DC 12V 1.25A</td>
</tr>
<tr>
<td>Housing</td>
<td>Metal</td>
</tr>
<tr>
<td>Weight</td>
<td>1065 g</td>
</tr>
<tr>
<td>Dimensions (LxWxH)</td>
<td>269x108x42 mm</td>
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# Technical Specifications

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red video</td>
<td>9</td>
<td>NC</td>
</tr>
<tr>
<td>2</td>
<td>Green video</td>
<td>10</td>
<td>Ground</td>
</tr>
<tr>
<td>3</td>
<td>Blue video</td>
<td>11</td>
<td>NC</td>
</tr>
<tr>
<td>4</td>
<td>NC</td>
<td>12</td>
<td>ID1</td>
</tr>
<tr>
<td>5</td>
<td>Ground</td>
<td>13</td>
<td>Horizontal sync</td>
</tr>
<tr>
<td>6</td>
<td>Analog ground</td>
<td>14</td>
<td>Vertical sync</td>
</tr>
<tr>
<td>7</td>
<td>Analog ground</td>
<td>15</td>
<td>ID3</td>
</tr>
<tr>
<td>8</td>
<td>Analog Ground</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Front View

![Front View Image]

## Rear View

![Rear View Image]
Installation

1. Ensure that the PCs, screens, and speakers being used are powered off.
2. Use the HD-15 image and 3.5mm audio extension cables to connect the VGA interface and PC audio card to the “Video In” and “Audio In” ports of the Audio/Video Matrix.
3. Use the HD-15 image and 3.5mm audio extension cables to connect a screen, speaker, or headphones to the “Video Out” and “Audio Out” of the Audio/Video Matrix.
4. Connect the Audio/Video Matrix to a power supply.
5. Turn on the PC’s, screens and speakers being used.
6. Use the control switches (ie. Out1, Out2, etc) to select which audio and video signals the Audio/Video Matrix will broadcast.

Operation

1. When you press button “Out1“ or “Out2“ or “Out3“ or “Out4“, the corresponding Out 7-Segment LED will start flashing for 3 seconds. There are total three switching methods:
   a. Press button “In1“ or “In2“ or “In3“or “In4“ within 3 seconds to make 7-Segment LED stop flashing and change its display to the number of Input port you set. Then the Output port will switch to the corresponding Input port.
   b. Press button “OFF“ within 3 seconds to make 7-Segment LED stop flashing and display “0“. Then this Output port will be turned off.
   c. If you don't press any button within 3 seconds, the 7-Segment LED will stop flashing and keep displaying original number and setting of Output port.
   d. If you press button “Out1“ or “Out2“ or “Out3“ or “Out4“ within 3 seconds, then Out 7-Segment LED will start flashing for 3 seconds again to wait for button “In1“ or “In2“ or “In3“ or “In4“, “OFF“ pressed.
2. When you press button “All”, all 7-Segment LED will start flashing for 3 seconds. There are total three switching methods:
   a. Press button “In1“ or “In2“ or “In3“or “In4“ within 3 seconds to make all 7-Segment LED stop flashing and change their displays to the number of Input ports you set. Then all Output ports will switch to the corresponding Input ports.
   b. Press button “OFF“ within 3 seconds to make all 7-Segment LED stop flashing and display “0“. Then all Output ports will be turned off.
   c. If you don't press any button within 3 seconds, all 7-Segment LED will stop flashing and keep displaying original number and setting of Output port.
   d. If you press button “All“ within 3 seconds, then all Out 7-Segment LED will start flashing for 3 seconds again to wait for button “In1“ or “In2“ or “In3“ or “In4“, “OFF“ pressed.
Operation for Cascade
Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

Warranty Information

This product is backed by a two year warranty.

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