

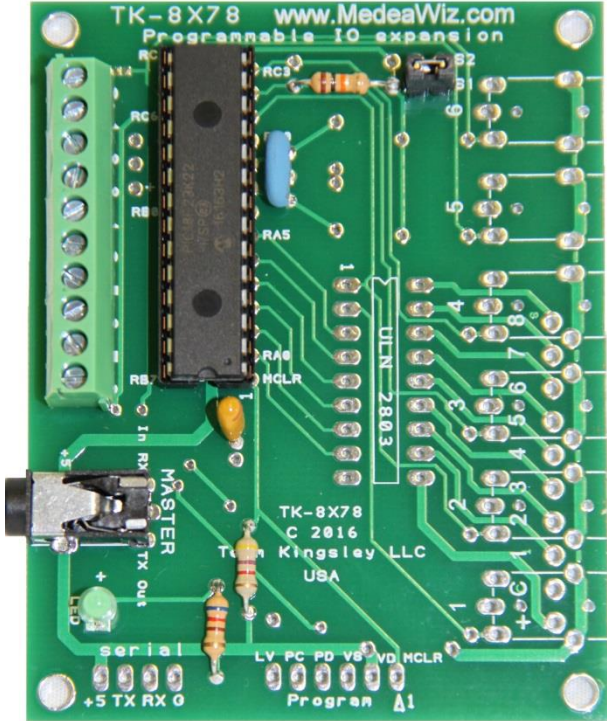
# MedeaWiz® 8X78

## Input / Output Expander

### User Manual

FW version 1.0

Manual version 1.00



Note that this manual may change periodically

Please go to [www.MedeaWiz.com](http://www.MedeaWiz.com) for the latest version

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## Introduction

The MedeaWiz 8X78 is an Input expander for the Sprite video player. It also has provisions to add 8 sinking outputs, or 6 additional 3.5mm ports to control up to 6 more Sprites.

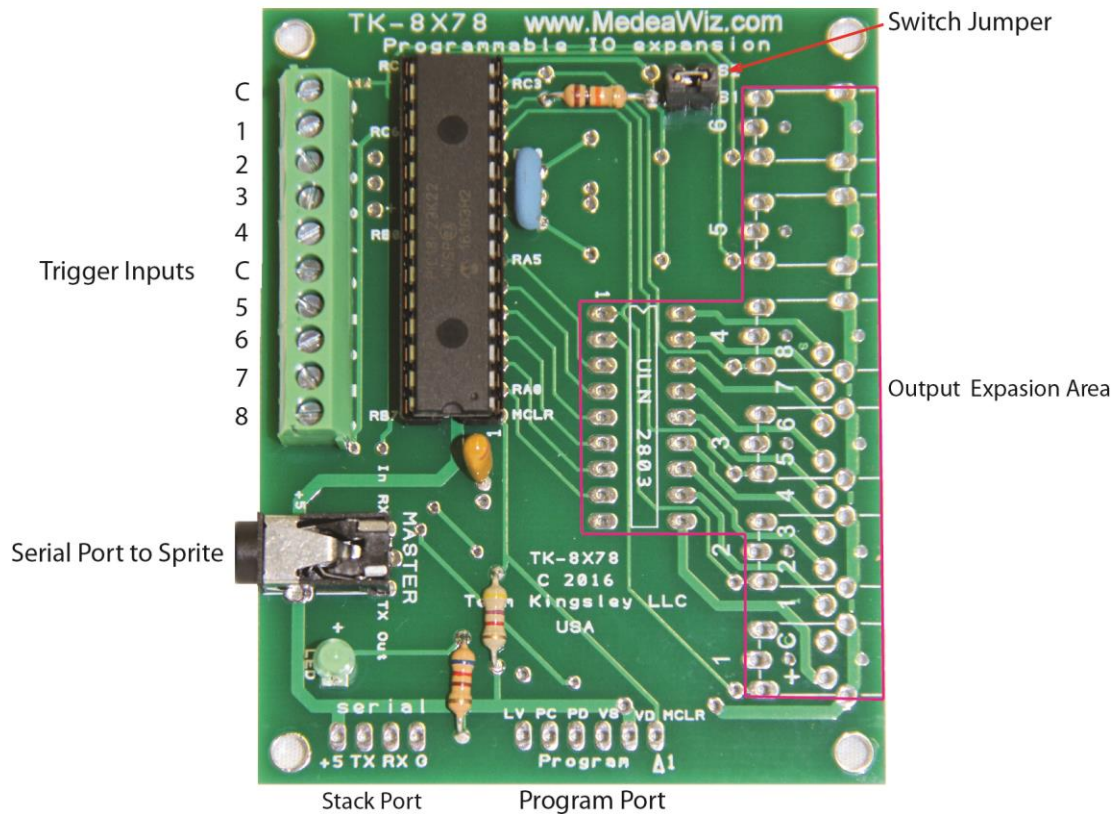
The base model is equipped with screw terminals and programmed to take up to 8 inputs and control up to 8 trigger files on the Sprite. You can use pushbuttons, other dry contacts, or logic-level voltage change with Low transition trigger.

You can choose to allow an interrupt from a new trigger event, or not to allow an interrupt, by a jumper switch.

In the Serial Control Mode you can have a looping video and control other videos to play on command. Once the commanded video ends, the looping video will play again until a new command is received.

The 8X78 is powered by the Sprite over the included 3.5mm 4 pole plug-in cable.

## 8X78 Quick Start Guide



Connect pushbutton / trigger inputs and name your files as follows:

Trigger / Button -- Use terminals -----File Name

|   |     |     |
|---|-----|-----|
| 1 | 1&C | 001 |
| 2 | 2&C | 002 |
| 3 | 3&C | 003 |
| 4 | 4&C | 004 |
| 5 | 5&C | 005 |
| 6 | 6&C | 006 |
| 7 | 7&C | 007 |
| 8 | 8&C | 008 |

Switch Jumper S1 installed = no interrupt. Removed = interrupt on new trigger.

Connect the Sprite I/O port to the 8X78 Serial Port using a 3.5mm 4 pole cable.

Set the Sprite Control Mode to Serial Control, and set the Baud Rate to 9600.

Name your files to match the input numbers. You must also have a 000 looping file.

## 8X78 Options

### Circuit Board Options

The circuit board has provisions to add:

1) A ULN2803 driver IC and a 10 position screw - terminal strip. This will allow driving low voltage lamps or relays. We can install this on request, or you can install it. The standard included programming will drive each of the 1 to 8 outputs while the corresponding file 001 to 008 is playing.

OR

2) Up to 6 more 3.5mm 4 pole jacks to interface up to 6 more Sprites. This option will require custom programming. Depending on your needs, there are multiple possibilities.

There is provision, by cutting trace and bridging solder gap, to allow up to 25 pushbuttons / dry contacts inputs in a 5 x 5 matrix. This will require a programming change in the 8X78.

The Stack Port allows stacking of a Sprite circuit board with the 8X78 for custom OEM applications. It shares the connections with the 3.5mm 4 pole Serial Port.

The Program Port allows direct programming of the PIC processor using widely-available third-party tools such as the PICKit™ 3. Free software development tools are available from <http://www.microchip.com/>

### Programming Options

The 8X78 comes pre-programmed to take up to 8 triggers / pushbuttons that will play up to 8 files, and will drive the optional ULN2803 output driver, if installed.

You can re-program the PIC processor to meet custom needs, or contact us for a quote on a custom program.

## What's included

The 8X78 comes as pictured with

- 1) Pre-programmed PIC processor installed
- 2) 3.5mm 4 pole plug to plug cable, for direct plug connection to the Sprite.

## Support

We do our very best to answer your calls and emails in a timely manner. We generally return calls and emails within 2 hours or less during business hours. We do monitor emails in the evenings and weekends and will try to respond outside of business hours.

Please read the entire manual. If we have a good manual then we will get fewer calls. Let us know where we can improve it to help others in the future.

If you are still having trouble, or need technical support for some other application, please email or call us. We are here to help when you need it.

## Custom Orders

We can offer:

- Bare circuit boards
- Installed ULN2803 output driver and terminal strip
- Installed additional 3.5mm 4 pole jacks
- Custom programming

Please email [info@sirkom.com](mailto:info@sirkom.com) or your Distributor for a quote.