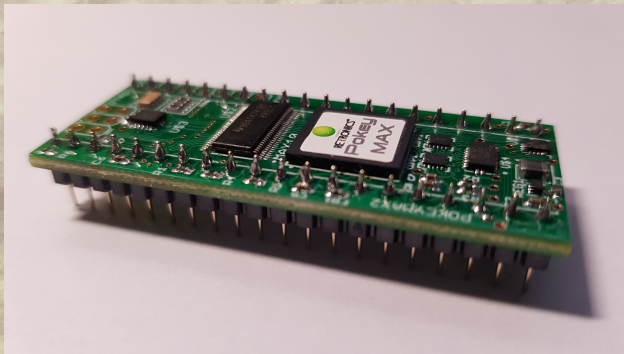




RETRONICS®

# Pokey MAX

## USER GUIDE



**v.1.0**

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Thank you for purchasing PokeyMAX device! It is a full 100% compatible replacement for POKEY chip by Atari, used in many models of 8-bit Atari computers and arcade machines. It is available in various versions, described in next sections of this manual. All of them have implemented all functions of Pokey chip, i.e. Audio, Keyboard, SIO, Paddles.

## 1. INSTALLATION

PokeyMAX is an ESD (Electrostatic Sensitive Device), therefore it must be stored and installed with high caution. These devices are packed in antistatic box to prevent damage. Take the following precautions to prevent damage to these devices from static electricity discharge:

1. Before you remove the product from ESD packaging and installing or replacing hardware, touch an unpainted metal surface of the system for a minimum of 5 seconds.
2. Do not remove the device from the antistatic bag until you are ready to install the device in the system.
3. With the device still in its antistatic bag, touch it to the metal frame of the system.
4. Grasp chip by the edges. Avoid touching the components and gold connectors on the chip.
5. If you need to lay the device down while it is out of the antistatic bag, lay it on the antistatic bag. Before you pick it up again, touch the antistatic bag and the metal frame of the system at the same time.
6. Handle the devices carefully to prevent permanent damage.

PokeyMAX must be installed in place where regular Pokey chip is. Please localize this place, it is a chip marked as C012294B(-xx). Below photo shows that chip installed on Atari 130XE board. Usually, all XE series computers have chips soldered directly into the board, while XL series usually has chips socketed.

If your Atari has Pokey soldered, you need to desolder it first.

**CAUTION:** *desoldering is a task for professionals. You may easily damage tracks and/or chip if you do not have experience in desoldering. Ask professional for assistance.*



Fig.1 Original POKEY chip soldered in XE series

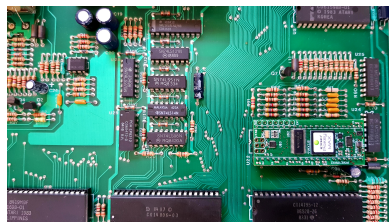
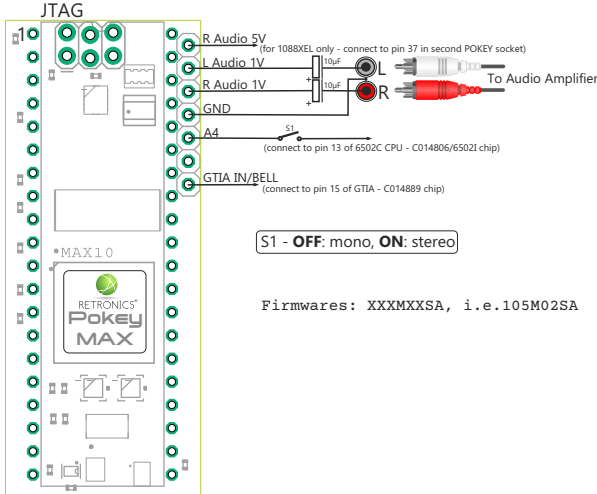


Fig.2 PokeyMAX installed in 800XL

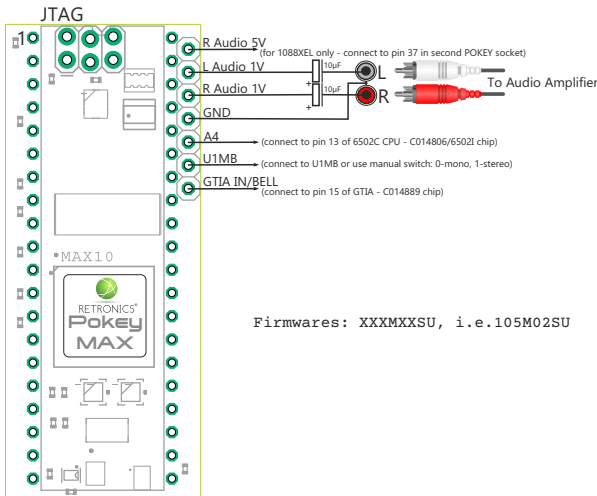
When you have empty socket, please carefully slot PokeyMAX into it (watch out the direction - pin 1 must be in the correct location!). When you are sure, that chip is installed correctly, you may turn on your Atari. Once powered on, please check keyboard, audio, SIO and paddles work as usual.

When installed as above, it will function as a mono Pokey - no matter which version you have purchased. Additional connections are required for Stereo and higher versions.

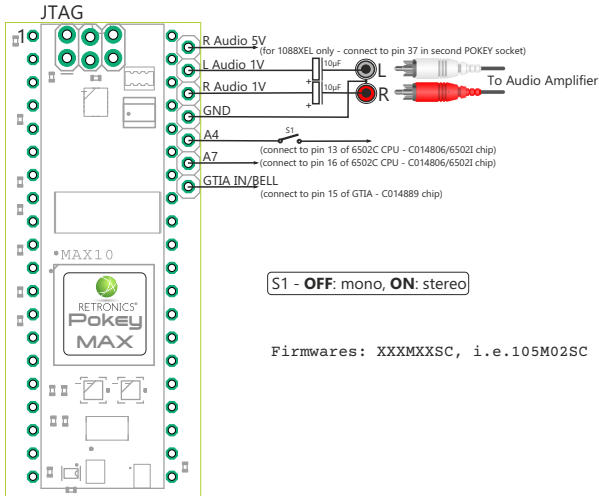
### Stereo version with Auto control wiring diagram:



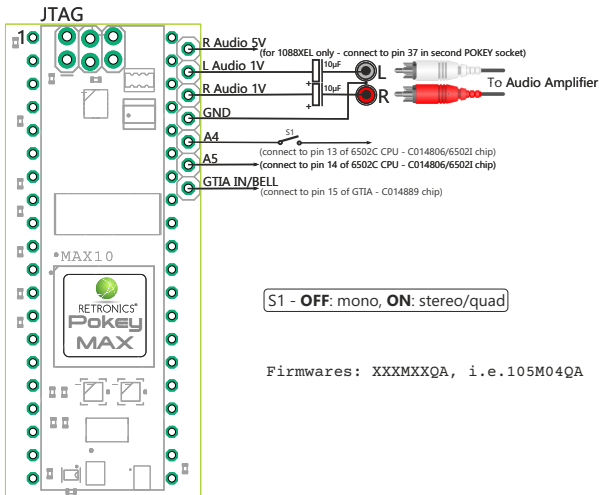
### Stereo version with Ultimate1MB (U1MB) control wiring diagram:



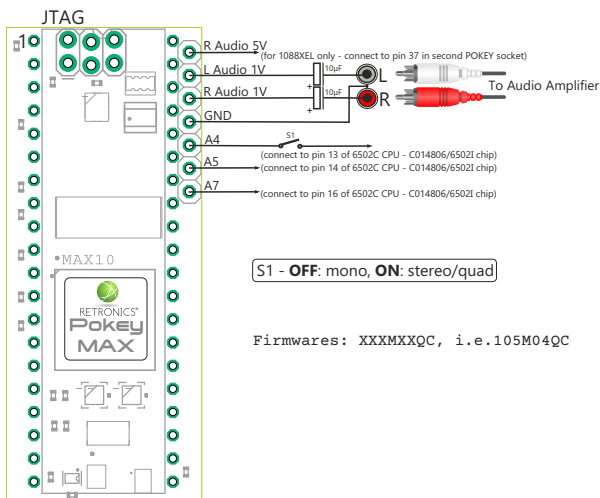
## Stereo version with Covox wiring diagram:



## Quad version with Auto control wiring diagram:



## Quad version with Covox wiring diagram:



**WARNING:** due to lack of pins, this version does not have keyboard click (buzzer) audible via RCA connectors. It is available still on regular Audio output (pin 3 of Video port).

With PokeyMAX you will get a goldpin bar, you can solder it to the PCB of PokeyMAX, but you can also solder wires directly to the pads.

In the future we will be offering harnesses ready to use.

