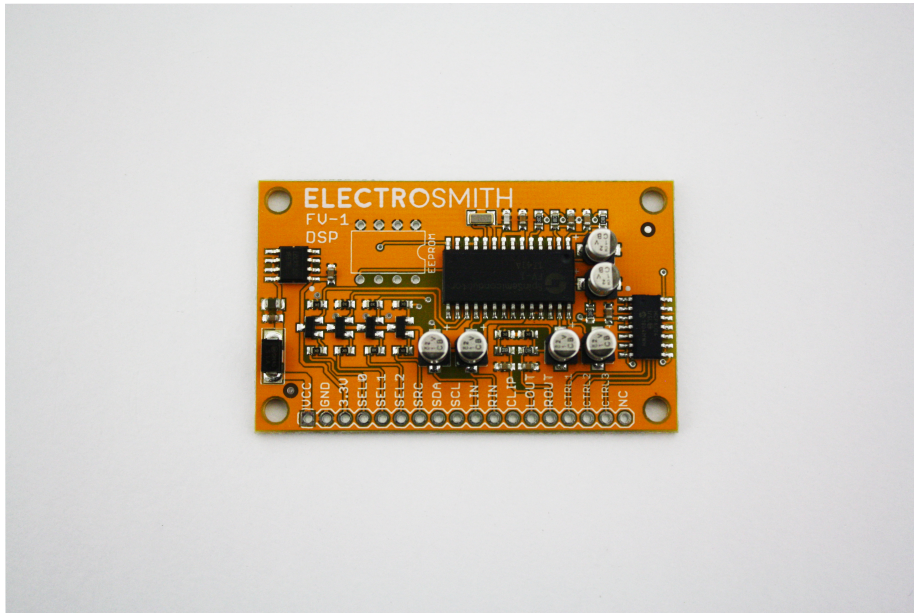


Electrosmith FV-1 DSP



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ES FV-1

FV-1 DSP Platform

The Electrosmith FV-1 DSP Platform is a stereo audio processor with eight on-board effects. It uses the Spin Semi FV-1 DSP IC which is found in countless effects pedals, and synthesizers. Default programs include reverb, delay, chorus, flanger, tremolo, and pitch shift. Custom DSP programs can be flashed to a DIP-8 EEPROM IC which can be hard soldered in, or inserted into an IC socket, allowing for solder-less swapping of custom FX programs.

- Stereo DSP platform
- 8 stock effects including reverb, delay, and pitch shift
- Can be powered from 9V battery, Arduino, etc.
- Hot swappable EEPROM slot

Electrical Characteristics

| Parameter | min | max | units |
|----------------|-------|-------|-------|
| VCC | 5 | 15 | V |
| 3.3V Reference | 3.168 | 3.432 | V |
| CTRL Inputs | 0 | 3.3 | V |

Pin Descriptions

1. VCC

Supply Voltage Input

Can be powered from +5V to +15V

2. GND

Ground Connection

3. 3.3V

Regulated +3.3V Output

4. SEL0

Program Select Input 0

High or Low input to control program selection.

5. SEL1

Program Select Input 1

High or Low input to control program selection.

6. SEL2

Program Select Input 2

High or Low input to control program selection.

7. SRC

Program Select Source

High or Low input to control whether programs are loaded from the internal ROM or an external EEPROM chip.

8. SDA

I2C SDA for connecting external EEPROM chip or programmer.

9. SCL

I2C SCL for connecting external EEPROM chip or programmer.

10. LIN

Left line level input

11. RIN

Right line level input

12. CLIP

Clip indicator. Can be connected to an LED with no additional resistor.

Illuminates when the input level is clipping.

13. LOUT

Processed left line level output

14. ROUT

Processed right line level output

15. CTRL 1

Control input for parameter 1

16. CTRL 2

Control input for parameter 2

17. CTRL 3

Control input for parameter 3

18. NC

No connection