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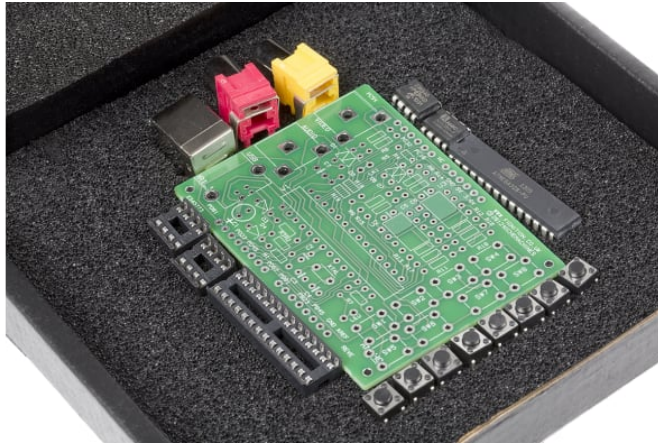
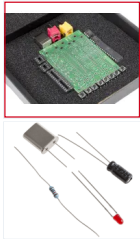
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FIGnition inFUZE SBC Kit


 RS Stock No.: **775-5003** | Mfr. Part No.: **FIGnition inFUZE** | Manufacturer: [FIGnition](#)


This image is representative of the product range



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Technical data sheets

- [FIGnition inFUZE Quick Reference Guide](#)
- [Atmel ATmega328-PU MCU datasheet](#)
- [FIGnition I/O Headers & Keypad Reference](#)
- [FIGnition inFUZE Getting Started Guide](#)
- [FIGnition User Manual Rev 1.0](#)
- [FIGnition inFUZE Bundle User Guide](#)
- [FIGnition Hardware Reference manual](#)

Legislation and Compliance

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Product Details

FIGnition inFUZE SBC Education Kit

FIGnition inFUZE is an Arduino®-sized and shield compatible single-board computer aimed squarely at the hobby and education market. It is supplied in kit form with comprehensive web-based instructions on how to solder it together. All the parts are standard 'through-hole' format (no surface-mount components) and even a beginner should have little difficulty creating a working computer in a few hours. Only three extra items need to be provided by the user - a television or monitor with a composite video input, a composite video cable and a suitable mains power



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supply. The microcontroller device is supplied pre-programmed with a high-level language, a dialect of **Forth**, and programs may be entered via the on-board keypad. FIGnition is an Open-Source product and third-party suppliers are starting to produce add-on 'shields' for it.

The on-board Flash memory is supplied pre-loaded with a range of games and utilities including a simple 2-channel analogue data logger. Users are encouraged to create their own add-on 'shields' using copper strip-board.

Tutorial and manuals available on line: <http://www.fignition.co.uk/fuze>

- 20MHz Atmel ATmega328 microcontroller, 32KB Flash memory, 2KB RAM, 1KB EEPROM
- On-board 512KB serial SPI Flash memory, expandable to 1MB
- On-board 8KB serial SPI RAM memory, expandable to 32KB
- Text display mode: 25 x 24 monochrome text with 16 user-defined characters
- Graphics display mode: 160 x 160 bitmap graphics with Sprite engine
- Pre-programmed FORTH language interpreter/compiler firmware, utilities and sample programs
- RCA jack (Yellow phono socket) for composite video display output
- RCA jack (Red phono socket) for audio output
- On-board programming keypad
- +5Vdc power supply via USB-B socket
- PCB footprint for optional I/O header sockets, Shield-compatible
- FIGnition has a GPL-open source software licence and is Open-Source Hardware OSH compliant

Note

A basic electronics toolkit is required to assemble FIGnition including a fine point soldering iron, side-cutters and long-nosed pliers. Suitable soldering iron kit for UK: [768-3573](#) , for EU countries: [768-3576](#). Composite video cable: [410-905](#) .

Caution

While they are not overly static-sensitive, it's a good idea to keep the chips in the black foam until required and to avoid charging yourself up on nylon carpets!

Supplied with

[Getting Started guide](#)

Specifications

Attribute	Value
Core Processor	Atmel AVR 8-bit
Processor Clock Speed	20MHz
Installed Memory	8 kB
Supported I/O Interfaces	GPIO
Length	71mm
Width	52mm

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