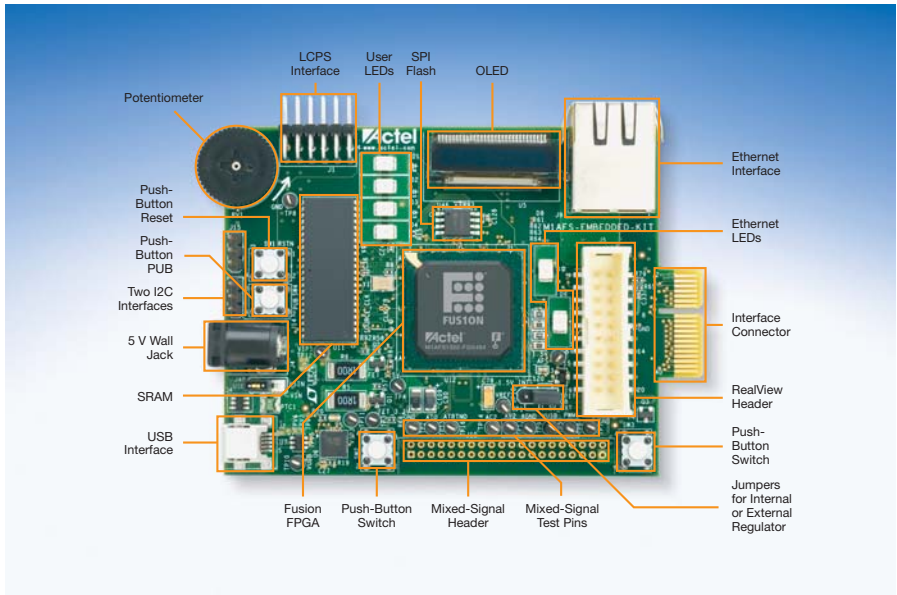


Fusion Embedded Development Kit Quickstart Card

Kit Contents – M1AFS-EMBEDDED-KIT

Quantity	Description
1	Fusion Embedded Starter Kit board with M1AFS1500-FGG484 Fusion device
1	Low-cost programming stick (LCPS)
2	USB 2.0 A to Mini-B cables
1	5 V power pack and modular plugs for power supply

Note: Users are entitled to a free copy of Libero[®] IDE Gold Edition with unlimited renewals.



Jumper Settings

Connect the jumpers using the default jumper connections below to enable the pre-programmed demo design to function correctly.

Jumper	Setting	Comment
JP10	Pin 1-2	Jumper to select either 1.55 V external regulator or Fusion 1.5 V internal regulator. Pin 1-2 = 1.5 V internal Pin 2-3 = 1.5 V external
J40	Pin 1-2	Jumper to select power source. Pin 3-2 = 5 V power block Pin 1-2 = USB

Running the Pre-Programmed Design

The design can be run in two modes: PIO mode and Webserver mode. On device reset, a menu appears on the organic light-emitting diode (OLED). The options available in this menu are:

- PIO – SW2
- Webserver – SW3

PIO Mode

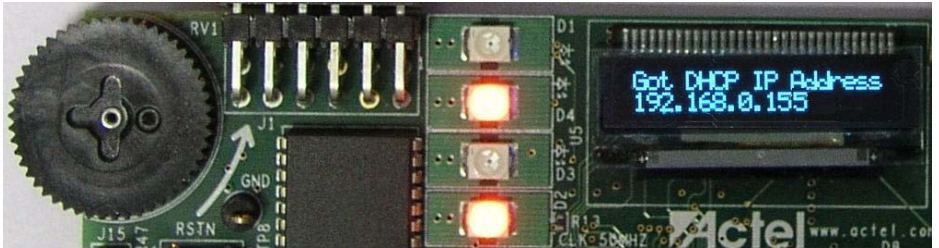
Press SW2 to access the PIO main menu. The OLED displays the main menu options below. Use SW3 to step through individual readings.

- Multimeter mode (press SW2 once for Multimeter mode)
Use the potentiometer (POT) to vary the input voltage.
- DAC mode (press SW2 two times for DAC mode)
Use the POT to vary the input voltage.
- Auxiliary mode (press SW2 three times for Auxiliary mode)
This mode allows external inputs to the board. Refer to the kit user's guide for more information.
- Self-Wakeup mode (press SW2 four times for Self-Wakeup mode)
All LEDs except for the green one will turn off. The Fusion device will then restart from the beginning with the Options menu.

Webserver Mode

The Webserver demonstration can be run in two ways. If connected directly to the internet, it will use the local area network (LAN) with a dynamic host configuration protocol (DHCP) server; if connected only to a PC through a loopback cable, it will use the LAN without a DHCP server. Some features will not operate fully when using the loopback cable. Refer to the *Fusion Embedded Development Kit User's Guide* for more information.

Press SW3 to enter Webserver mode. The OLED displays a static internet protocol (IP) address for the board. The value will vary, but one example is shown below.



If the board is connected to the internet or connected through a loopback cable, you can open a web browser and enter the IP address shown on your OLED display. For the example above, enter:

<http://192.168.0.155> (yours will be different)

This will open a web page and you can then step through various features:



M1AFS Embedded Webserver Demonstration

Multi-meter	DAC
VIT-Auxiliary	Text Terminal
Waveform	Self-Wakeup
Stock Ticker	Sleeping Stopwatch
Real Time Data Display	Gadgets

Software and Licensing

Download and install the latest release of Libero® Integrated Design Environment (IDE) from the Actel website and register for your free Gold license. Then, install the most recent SoftConsole release to program and debug your processor-based application.

Libero IDE releases: www.actel.com/download/software/libero

SoftConsole releases: www.actel.com/download/software/softconsole

Documentation Resources

For further kit information, including user's guide, tutorial, and full design examples, refer to the Fusion Embedded Starter Kit page:

www.actel.com/products/hardware/devkits_boards/fusion_embedded.aspx

Technical Support and Contacts

Technical support is available online at www.actel.com/support, by email at tech@actel.com, or by phone:

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