Fusion Advanced Development Kit
Quickstart Card

Kit Contents – M1AFS-ADV-DEV-KIT-2 (RoHS-compliant)

Quantity	Description
1	Fusion Advanced Development Board with ARM® Cortex™-M1–enabled M1AFS1500-FGG484
1	FlashPro3-compatible low-cost programming stick (LCPS)
2	Mini USB cables

Note: M1AFS-ADV-DEV-KIT-2 does not include power supplies, so for this kit you must also order two of the 9 V POWER PACKs.
M1AFS-ADV-DEV-KIT-PWR includes the two power packs.

The Fusion Advanced Development Kit provides an excellent platform for developing microprocessor applications and other system management applications. The M1AFS1500 ARM-enabled Fusion mixed-signal flash FPGA on the board supports ARM Cortex-M1, Core8051s, and other soft IP processors. This kit supports the following functions:

- Power-up detection
- Thermal management
- Power sequencing
- Sleep modes
- System diagnostics
- Remote communications
- Clock generation and management

The Fusion Advanced Development Kit also includes support for the Mixed-Signal Power Manager (MPM) GUI. The lower section of the board, marked Power Supply MGMT Area, can be used in conjunction with the MPM design example and demonstration to determine voltage sequencing and power management. These are available from the kit web page.

Microsemi
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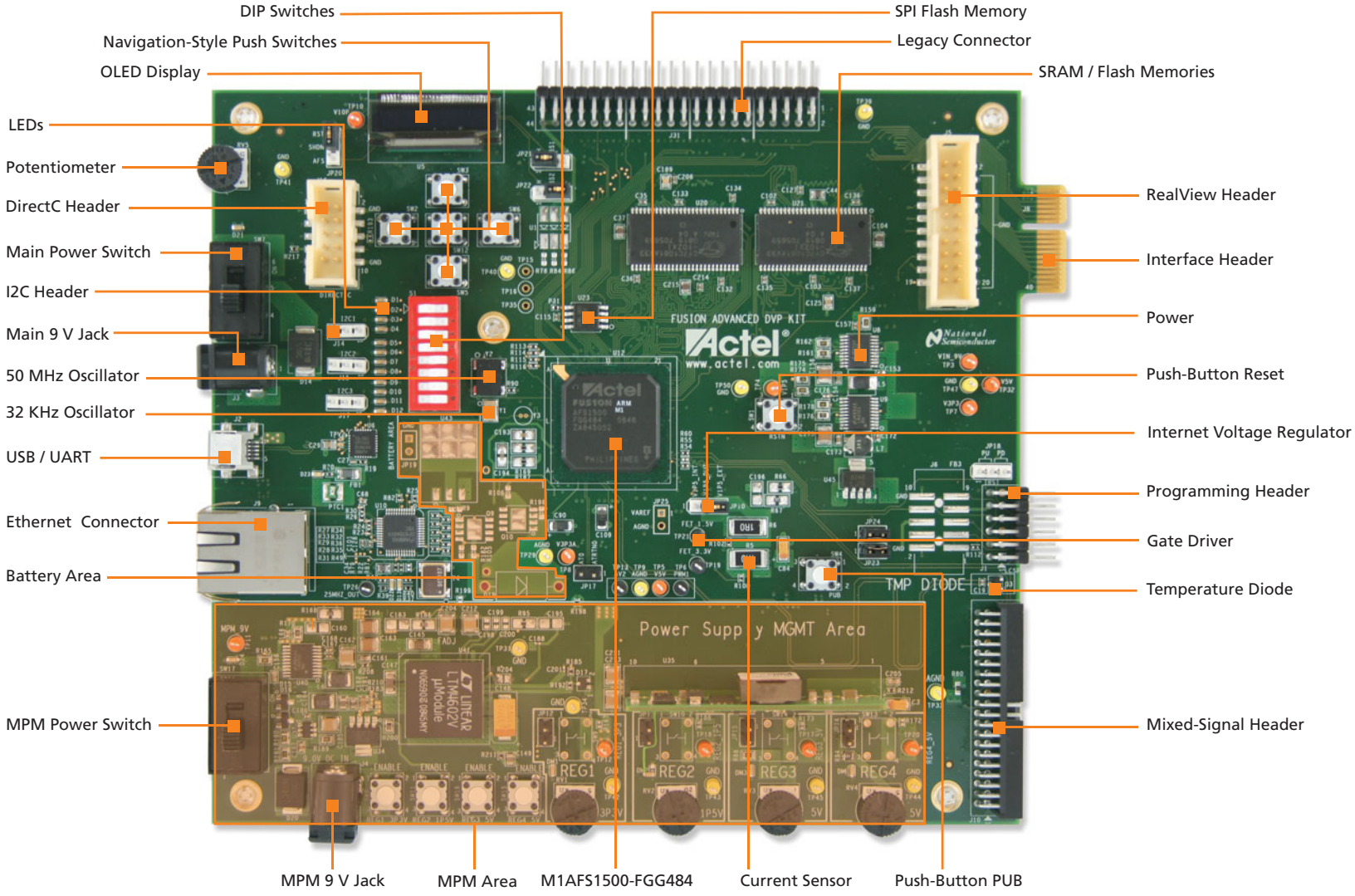

Jumper Switches and Settings

Before powering up the M1AFS-ADV-DEV-KIT for the first time, make sure the switches and jumpers are in the following factory-set positions:

- Switches: All switches are push-button except for the power-on switches, so no settings required.
- JP10 (2-3), JP18 (2-3), JP20 (1-2), JP21 (1-2), JP22 (1-2), JP23 (1-2), JP24 (1-2) are installed.
- All others are not installed.

For a full description of all jumpers, refer to the user's guide on the Fusion Advanced Development Kit web page.

Running the Manufacturing Tests

The manufacturing tests for the Fusion Advanced Development Kit are included in the user's guide. If at any point you are not sure on the functionality of the device, you can use this test to verify the board.

Software and Licensing

Download and install the latest release of Libero® System-on-Chip (SoC) software from the Microsemi SoC Products Group website (www.microsemi.com/soc) and register for your free Gold license. In order to design with a Cortex-M1–enabled device, you should install both the Libero SoC and SoftConsole tools. SoftConsole is used for programming and debug of embedded processor designs.

Software releases: www.microsemi.com/soc/download/software/libero

Documentation Resources

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

www.microsemi.com/soc/products/hardware/devkits_boards/fusion_adv.aspx

Technical Support and Contacts

Technical support is available online at www.microsemi.com/soc/support and by email at soc_tech@microsemi.com.

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