



Development Board for MC56F83xxx Digital Signal Controllers

MC56F83000-EVK

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The MC56F83000-EVK is an ultra-low-cost development platform for digital signal controller MC56F83xxx MCU.

The kit is form-factor compatible with the Arduino™ R3 pin layout and features ROM bootloader supporting SCI, IIC and CAN.

Peripherals enable rapid prototyping, including a 6-axis digital accelerometer and magnetometer to create full eCompass capabilities, 6 buffered LEDs indicating PWM signals, 4 user LEDs, 4 user push-buttons for direct interaction, an SPI interfaced Flash memory, a high speed CAN transceiver circuit, a USBOTG connector and a USB to UART bridge circuit.

The MC56F83000-EVK features onboard OSBDM circuit enabling debugging and programming with CodeWarrior.

MC56F83000-EVK Call Out Block Diagram

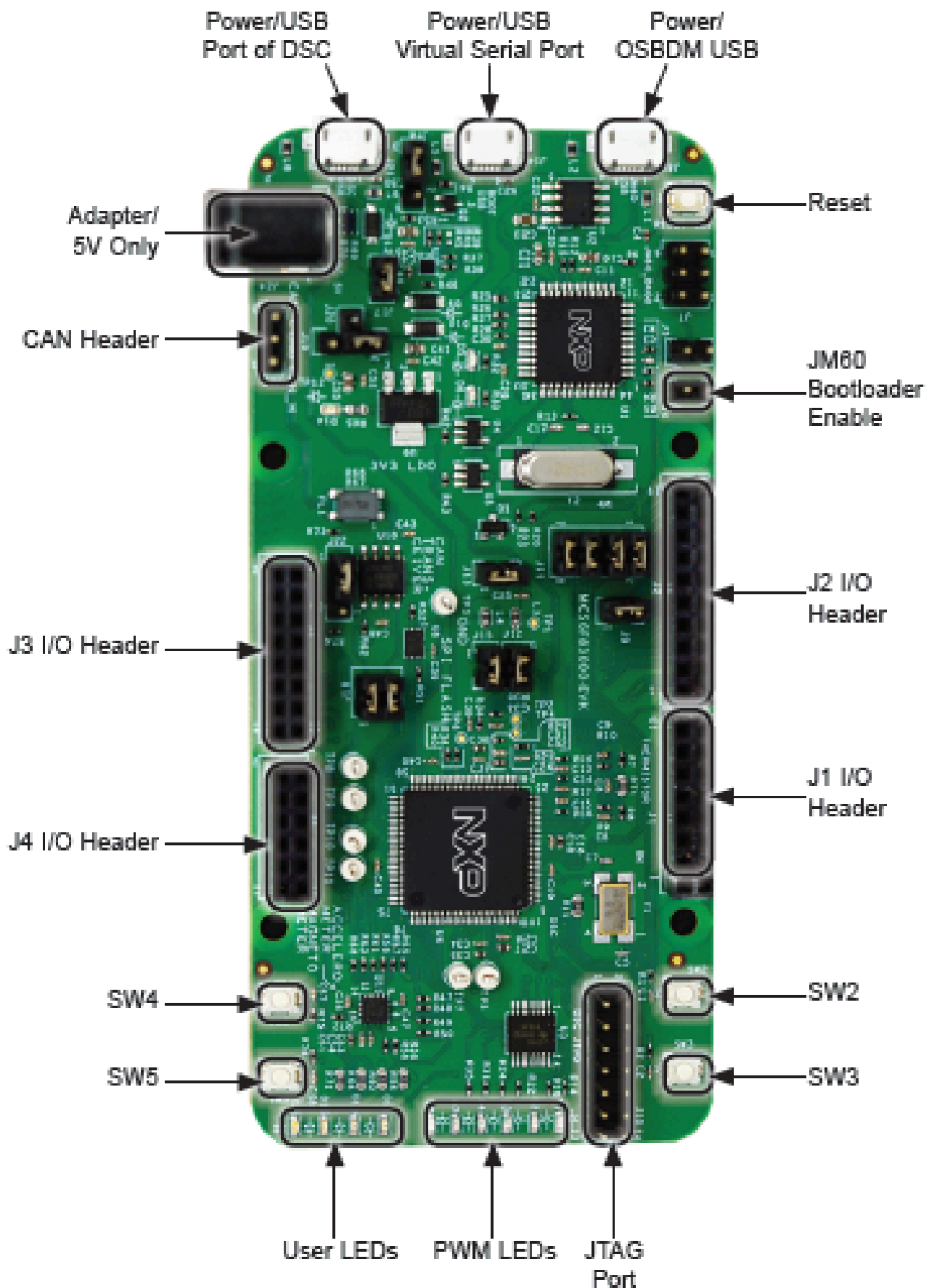
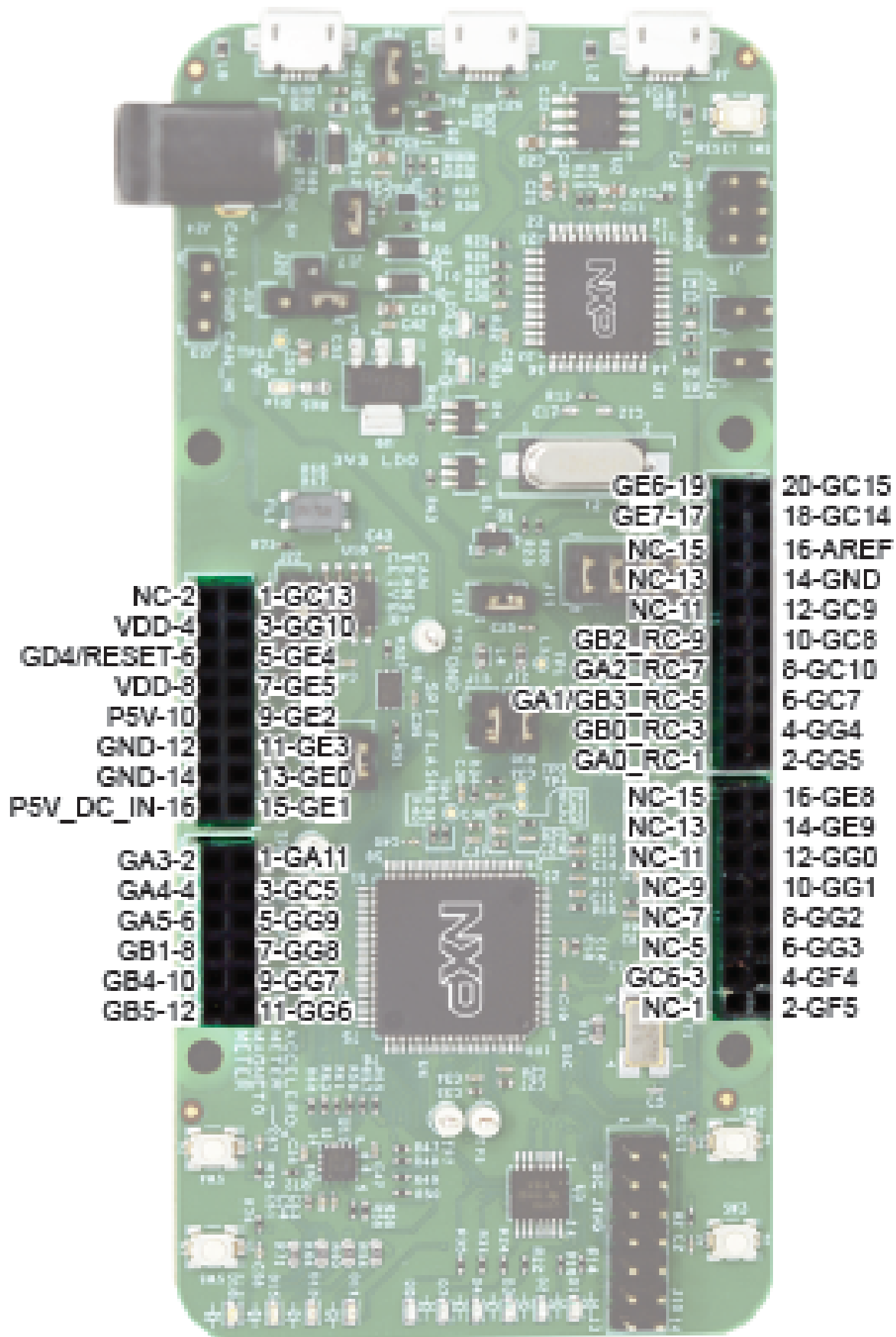


Figure 1: MC56F83000-EVK Callouts

MC56F83000-EVK Pin Out Block Diagram



| | | | |
|--------------|--------|--------------|---------|
| NC-2 | 1-GC13 | GE6-19 | 20-GC15 |
| VDD-4 | 3-GG10 | GE7-17 | 18-GC14 |
| GD4/RESET-6 | 5-GE4 | NC-15 | 16-AREF |
| VDD-8 | 7-GE5 | NC-13 | 14-GND |
| P5V-10 | 9-GE2 | NC-11 | 12-GC9 |
| GND-12 | 11-GE3 | GB2_RC-9 | 10-GC8 |
| GND-14 | 13-GE0 | GA2_RC-7 | 8-GC10 |
| P5V_DC_IN-16 | 15-GE1 | GA1/GB3_RC-5 | 6-GC7 |
| | | GB0_RC-3 | 4-GG4 |
| | | GA0_RC-1 | 2-GG5 |
| | | NC-15 | 16-GE8 |
| GA3-2 | 1-GA11 | NC-13 | 14-GE9 |
| GA4-4 | 3-GC5 | NC-11 | 12-GG0 |
| GA5-6 | 5-GG9 | NC-9 | 10-GG1 |
| GB1-8 | 7-GG8 | NC-7 | 8-GG2 |
| GB4-10 | 9-GG7 | NC-5 | 6-GG3 |
| GB5-12 | 11-GG6 | GC6-3 | 4-GF4 |
| | | NC-1 | 2-GF5 |

View additional information for [Development Board for MC56F83xxx Digital Signal Controllers](#).

Note: The information on this document is subject to change without notice.

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