Development Board for MC56F81xxx Digital Signal Controllers
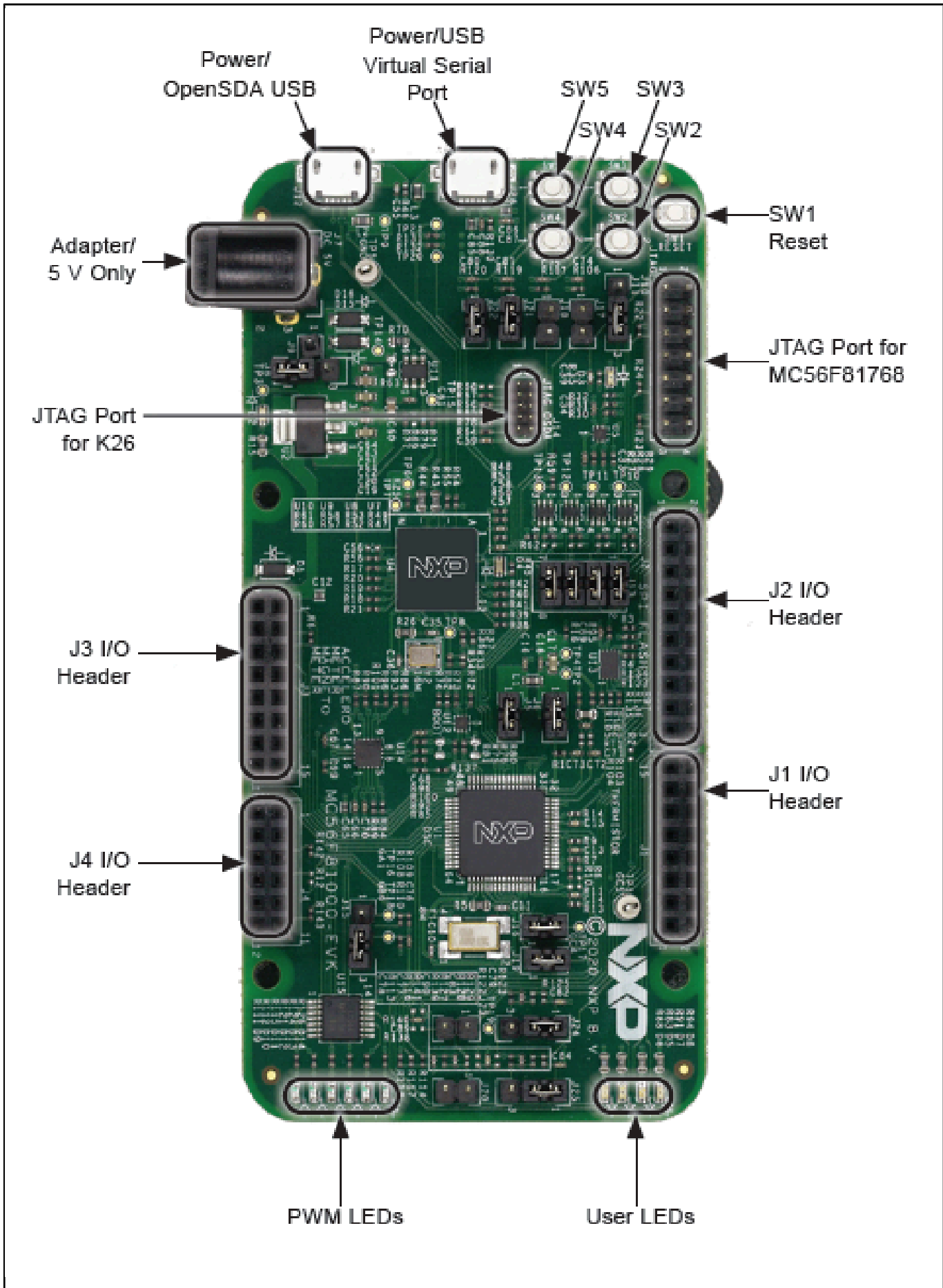
MC56F81000-EVK

Last Updated: Nov 22, 2023

The MC56F81000-EVK is an ultra-low-cost development platform for digital signal controller MC56F81xxx MCU.
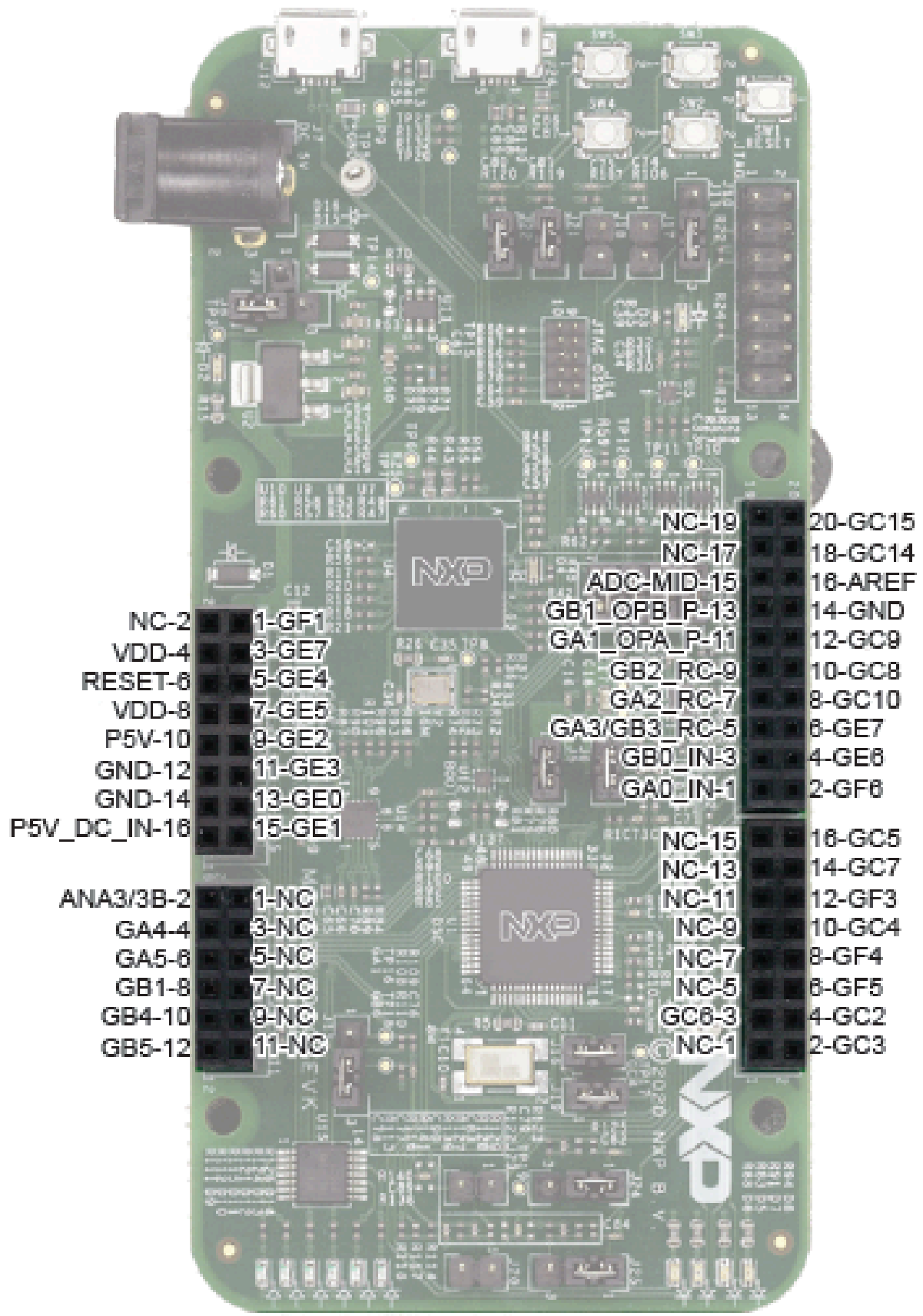
The kit is form-factor compatible with the Arduino™ R3 pin layout and features ROM bootloader supporting SCI and LPIIC. The MC56F81000-EVK features onboard OpenSDA circuit enabling debugging and programming with CodeWarrior.

Peripherals enable rapid prototyping, including a 6-axis digital accelerometer and magnetometer to create full eCompass capabilities, 6 buffered LEDs including PWM signals, 4 user LEDs, 4 user push_buttons for direct interaction, two OPAMP external feedback circuits, an SPI interfaced Flash memory and a USB to UART bridge circuit.

MC56F81000-EVK Call out Block Diagram

Power/
OpenSDA USB

Power/USB
Virtual Serial
Port

SW5   SW3

SW4   SW2

SW1
Reset

Adapter/
5 V Only

JTAG Port for
MC56F81768

JTAG Port
for K26

J2 I/O
Header

J3 I/O
Header

J1 I/O
Header

J4 I/O
Header

PWM LEDs

User LEDs

MC56F81000-EVK Pin out Block Diagram

NC-2   1-GF1
VDD-4   3-GE7
RESET-6   5-GE4
VDD-8   7-GE5
P5V-10   9-GE2
GND-12   11-GE3
GND-14   13-GE0
P5V_DC_IN-16   15-GE1

ANA3/3B-2   1-NC
GA4-4   3-NC
GA5-6   5-NC
GB1-8   7-NC
GB4-10   9-NC
GB5-12   11-NC

NC-19   20-GC15
NC-17   18-GC14
ADC-MID-15   16-AREF
GB1_OPB_P-13   14-GND
GA1_OPA_P-11   12-GC9
GB2_RC-9   10-GC8
GA2_RC-7   8-GC10
GA3/GB3_RC-5   6-GE7
GB0_IN-3   4-GE6
GA0_IN-1   2-GF6

NC-15   16-GC5
NC-13   14-GC7
NC-11   12-GF3
NC-9   10-GC4
NC-7   8-GF4
NC-5   6-GF5
GC6-3   4-GC2
NC-1   2-GC3

View additional information for Development Board for MC56F81xxx Digital Signal Controllers.

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

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