

# LMK0482x Family SPI Read Back

# LMK0482x Read Back Pins

## • 4-Wire Mode

SPI\_3WIRE\_DIS = X  
(Register 0x000[4])

In addition to programming ???\_MUX to SPI read back option, the corresponding ???\_TYPE must be programmed to an output type:  
3 = Output (push-pull), 4= Output inverted (push-pull), 5 = Output (open source), 6 = Output (open drain)

### – CLKIn\_SEL0 (Pin 58)

- CLKIn\_SEL0\_MUX = (6, SPI read back)  
(Register 0x148[5:3])

### – CLKIn\_SEL1 (Pin 59)

- CLKIn\_SEL1\_MUX = (6, SPI read back)  
(Register 0x149[5:3])

### – Status\_LD1 (Pin 31)

- PLL1\_LD\_MUX = (7, SPI read back)  
(Register 0x15F[7:3])

### – Status\_LD2 (Pin 48)

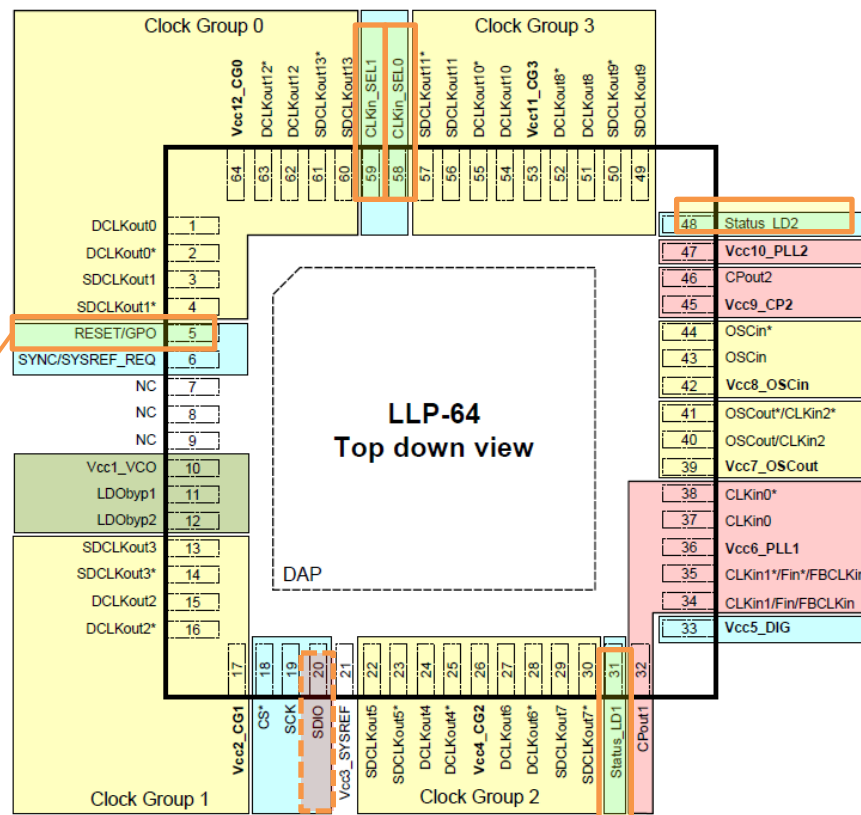
- PLL2\_LD\_MUX = (7, SPI read back)  
(Register 0x16E[7:3])

### – RESET/GPO (Pin 5)

- RESET\_MUX = (6, SPI read back)
- (Register 0x149[5:4])
- Warning: Power on default is for RESET is input with active high functionality. This means if pin 5 is used for read back but is held high inadvertently by system before changing RESET\_TYPE to output, then system will be held in reset, SPI commands will have no effect until RESET pin is set low.

3-Wire Read Back Pin

4-Wire Read Back Pins



## • 3-Wire Mode

SPI\_3WIRE\_DIS = 0  
(Register 0x000[4])

### – SDIO (Pin 20)

- Push/Pull Output  
SDIO\_RDBK\_TYPE (Register 0x149[6]) = 0
- Open Drain Output  
SDIO\_RDBK\_TYPE (Register 0x149[6]) = 1

# 1.8 V Compliance: No pin will exceed 1.8 V levels on POR

Some pins may exceed 1.8 V when explicitly programmed.

- RESET/GPO
  - POR = Input with pull down. (RESET\_TYPE = 2)
  - Can be programmed to 3.3 V
- CS\* - Input, High impedance.
- SCK - Input, High impedance.
- SDIO – Input, High impedance.
  - POR = When read back output, open drain. (SDIO\_RDBK\_TYPE = 1)
  - Can be programmed to 3.3 V when in read back.
- Status\_LD1
  - POR = Output with open drain (PLL1\_LD\_TYPE = 6)
  - Can be programmed to 3.3 V
- Status\_LD2
  - POR = Output with open drain (PLL2\_LD\_TYPE = 6)
  - Can be programmed to 3.3 V
- CLKin\_SEL0
  - POR = Input with pull down. (CLKin\_SEL0\_TYPE = 2)
  - Can be programmed to 3.3 V
- CLKin\_SEL1
  - POR = Input with pull down. (CLKin\_SEL1\_TYPE = 2)
  - Can be programmed to 3.3 V
- For use of pins which can be programmed to 3.3 V on 1.8 V systems, output must be programmed to open drain mode and used with an external pull-up resistor to 1.8 V or any other desired rail voltage.

