

FEATURES

Digitally tunable, multioctave, band-pass tuning
3dB Bandwidth (BW): 7 to 11%
Low Insertion Loss: 4dB @ 9% BW
Excellent rejection: 20 dB @ 2 x BW
Great Linearity
Single chip replacement for discrete solutions
Compact 22 x 22 x 5.73 mm LGA package

APPLICATIONS

Land mobile radio
Test and measurement equipment
Military radar and electronic warfare/electronic countermeasures
Satellite communications
Industrial and medical equipment

GENERAL DESCRIPTION

The ADMV8052 is a radio frequency filter, that features a digitally selectable frequency of operation. The device has three band-pass filters, that span across three specified bands from 30 to 520 MHz.

The center frequency (f_c) of operation can be adjusted using an 8-bit value (256 states) that incorporates a patent pending interpolation technique. The typical 3 dB bandwidth (BW) is 9% and adjustability is $\pm 2\%$. Insertion loss is typically 4 dB, and rejection at 2 x BW is 20 dB, which is ideally suited for minimizing system harmonics. Additionally, the flexible architecture incorporates a bypass mode with a low insertion loss of 1 dB.

This tunable filter can be used as a smaller alternative to large switched filter banks and cavity tuned filters, and this device provides a dynamically adjustable solution in advanced communications applications.

FUNCTIONAL BLOCK DIAGRAM

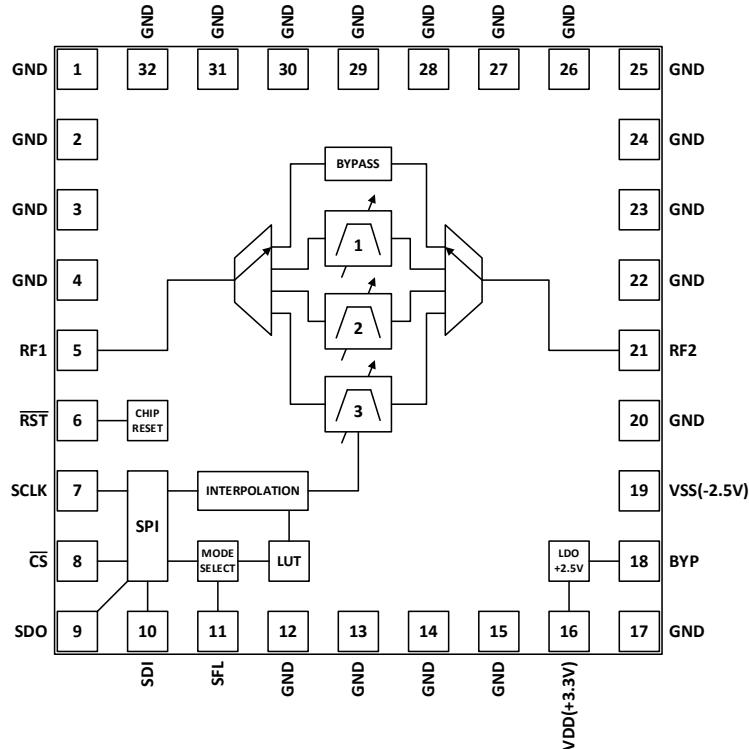


Figure 1.

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SPECIFICATIONS

T_A = 25°C, unless otherwise noted.

Table 1.

Parameter	Min	Typ	Max	Unit	Test Conditions/Comments
CENTER FREQUENCY RANGE (f _c)					
Band 1	30		89.99	MHz	
Band 2	90		224.99	MHz	
Band 3	225		520	MHz	
Bypass	5		3000	MHz	
BANDWIDTH (3 dB)	7	9	11	%	
RESOLUTION					Varies with respect to center frequency, please refer to section TBD for more information.
Band 1		235		kHz	
Band 2		530		kHz	
Band 3		1.15		MHz	
REJECTION					
2 x BW		20		dB	
Reentry		3		GHz	≤30 dB
INSERTION LOSS					
Bypass Mode		1		dB	
BPF		4		dB	
RETURN LOSS		20		dB	
DYNAMIC PERFORMANCE					
Input Compression (P0.1dB)		TBD		dBm	
Input Third-Order Intercept (IP3)		TBD		dBm	
Group Delay Flatness		TBD		ns	
Amplitude Settling Time		TBD		ns	To within ≤0.5 dB of static insertion loss
Phase Settling Time		TBD		μsec	To within ≤5° of static phase
Drift Rate					
Amplitude		TBD		dB/°C	
Frequency		TBD		ppm/°C	At TBD MHz
RESIDUAL PHASE NOISE					
At 1 MHz to 10 MHz Offset		TBD		dBc/Hz	
SUPPLY VOLTAGE					
V _{SS}	-2.6	-2.5	-2.4	V	
V _{DD}	+3.2	+3.3	+3.4	V	
SUPPLY CURRENT (STATIC)					
V _{SS}		TBD		μA	
V _{DD}			TBD	μA	
SUPPLY CURRENT (DYNAMIC)					
V _{DD}		TBD		mA	Where f _{SCLK} is the SCLK toggle frequency in MHz, for example, continuous SPI writing at 10 MHz yield TBD mA of dynamic supply current
LOGIC (Error! Bookmark not defined. RST, CS, SCLK, SDI, SDO, SFL)					
Logic Low	-0.3	0	+0.8	V	
Logic High	+1.2	+3.3	+3.6	V	

TIMING SPECIFICATIONS

Table 2.

Parameter	Min	Typ	Max	Unit	Test Conditions / Comments
t_1	10			ns	$\overline{\text{RST}}$ low time to perform reset
	10			ns	SCLK cycle time (write)
t_2	20			ns	SCLK cycle time (read)
t_3	2.5			ns	SCLK high time
t_4	2.5			ns	SCLK low time
t_5	5			ns	$\overline{\text{CS}}$ falling edge to SCLK rising edge setup time
t_6	2			ns	SCLK rising edge to $\overline{\text{CS}}$ hold time
t_7	5			ns	Minimum $\overline{\text{CS}}$ high time for latching in data (for multiple SPI transactions)
t_8	5			ns	$\overline{\text{CS}}$ rising edge to next SCLK rising edge ignore
t_9	5			ns	SDI data setup time
t_{10}	2			ns	SDI data hold time
t_{11}	10			ns	SFL falling edge (exiting SFL mode) to $\overline{\text{CS}}$ falling edge time (start SPI transaction)
t_{12}	10			ns	$\overline{\text{CS}}$ rising edge (end SPI transaction) to SFL rising edge time (entering SFL mode)
t_{13}	10			ns	SFL rising edge to $\overline{\text{CS}}$ falling edge time
t_{14}	10			ns	$\overline{\text{CS}}$ cycle time (SFL mode)
t_{15}	2.5			ns	$\overline{\text{CS}}$ high time (SFL mode)
t_{16}	2.5			ns	$\overline{\text{CS}}$ low time (SFL mode)
t_{17}	6			ns	SCLK falling edge to SDO valid (load capacitance (C_L) = 10 pF)
t_{18}	5			ns	SDO rise and fall time (C_L = 10 pF)
t_{19}	4			ns	$\overline{\text{CS}}$ rising edge to SDO tristate (C_L = 10 pF)

Timing Diagram

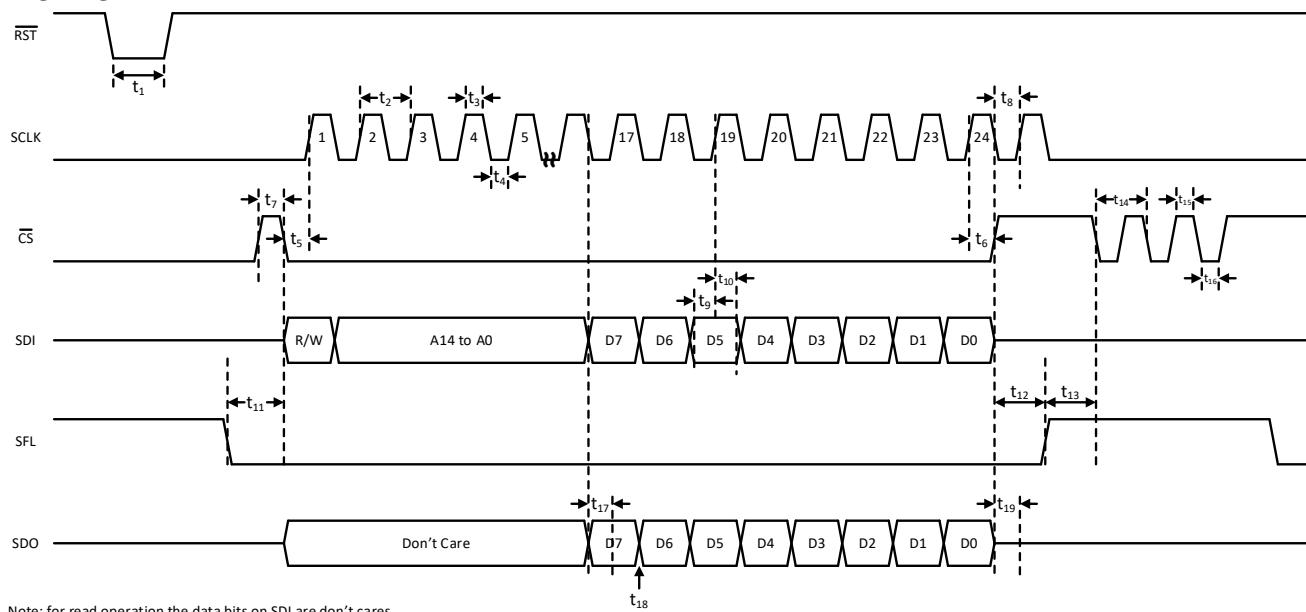


Figure 2. Timing Diagram

ABSOLUTE MAXIMUM RATINGS

Table 3.

Parameter	Rating
SUPPLY	
VDD	-0.3 V to +3.6 V
VSS	-3.6 V to +0.3 V
Digital Control Inputs	
Voltage	-0.3 V to VDD + 0.3 V
Current	2 mA
RF Input Power	P0.1dB ¹
Temperature	
Operating Range	-55°C to +105°C
Storage Temperature Range	-65°C to +150°C
Junction to Maintain 1 Million Hours Mean Time to Failure (MTTF)	135°C
Nominal Junction ($T_{PADDLE} = 85^\circ\text{C}$)	90°C
Moisture Sensitivity Level (MSL) Rating	MSL3

¹ Note that P0.1dB varies with filter settings. Please see Figure TBD.

Stresses at or above those listed under Absolute Maximum Ratings may cause permanent damage to the product. This is a stress rating only; functional operation of the product at these or any other conditions above those indicated in the operational section of this specification is not implied. Operation beyond the maximum operating conditions for extended periods may affect product reliability.

ELECTROSTATIC DISCHARGE (ESD) RATINGS

The following ESD information is provided for handling of ESD-sensitive devices in an ESD protected area only.

Human body model (HBM) per ANSI/ESDA/JEDEC JS-001.

Field induced charged device model (FICDM) per ANSI/ESDA/JEDEC JS-002.

ESD Ratings for ADMV8052

Table 4. ADMV8052, 32-Terminal LGA

ESD Model	Withstand Threshold (V)	Class
HBM	2000	2
FICDM	250	C3

ESD CAUTION



ESD (electrostatic discharge) sensitive device.
Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

PIN DESCRIPTIONS

Table 5. Pin Function Descriptions

Pin No.	Mnemonic	Description
1 to 4, 12 to 15, 17, 20, 22 to 32	GND	Ground. Connect the GND pins to the RF and dc ground.
5	RF1	RF Pin 1. This pin is dc-coupled and matched to $50\ \Omega$. Do not apply an external voltage to this pin.
6	\overline{RST}	Chip Reset. 3.3 V logic. Active low. The \overline{RST} pin is internally pulled high with a $260\ k\Omega$ resistor.
7	SCLK	Serial Peripheral Interface (SPI) Clock. 3.3 V logic. The SCLK pin is internally pulled low with a $260\ k\Omega$ resistor.
8	\overline{CS}	SPI Chip Select. 3.3 V logic. Active low. The \overline{CS} pin is internally pulled low with a $260\ k\Omega$ resistor.
9	SDO	SPI Data Output. 3.3 V logic. The SDO pin is internally pulled low with a $260\ k\Omega$ resistor.
10	SDI	SPI Data Input. 3.3 V logic. The SDI pin is internally pulled low with a $260\ k\Omega$ resistor.
11	SFL	SPI Fast Latch Enable. 3.3 V logic. Set SFL high to enable fast latching of filter states on each rising edge of \overline{CS} . While SFL is in this mode, the SCLK, SDO, and SDI pins are not active. The SFL pin is internally pulled low with a $260\ k\Omega$ resistor.
16	VDD	+3.3 V Power Supply Pin. Place $0.1\ \mu F$ and $100\ pF$ decoupling capacitors close to VDD.
18	BYP	+2.5 V LDO Bypass Pin. Place $47\ \mu F$, $0.1\ \mu F$, and $100\ pF$ decoupling capacitors close to BYP.
19	VSS	-2.5 V Power Supply Pin. Place $0.1\ \mu F$ and $100\ pF$ decoupling capacitors close to VSS.
21	RF2	RF Pin 2. This pin is dc-coupled and matched to $50\ \Omega$. Do not apply an external voltage to this pin.
E1 to E16	EPAD	Exposed Pad. The exposed pad must be connected to the RF and dc ground.

TYPICAL PERFORMANCE CHARACTERISTICS

BAND 1

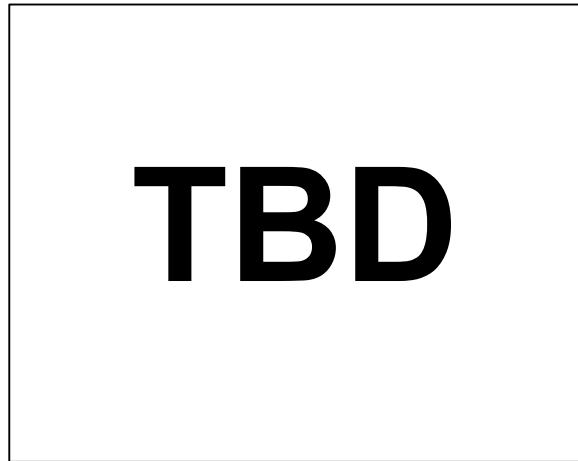


Figure 3. Insertion Loss vs RF Frequency for 9% Bandwidth

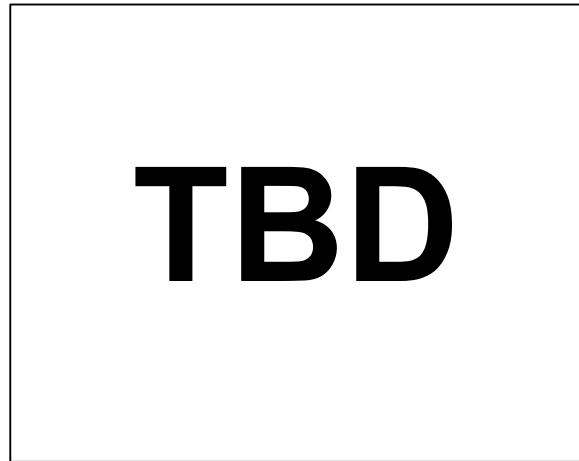


Figure 6. Insertion Loss vs RF Frequency for 9% Bandwidth and Various Temperatures

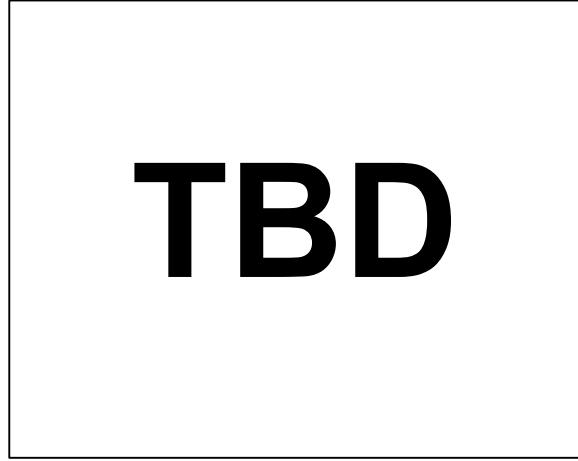


Figure 4. Insertion Loss and Return Loss vs RF Frequency for 9% Bandwidth at 30 MHz

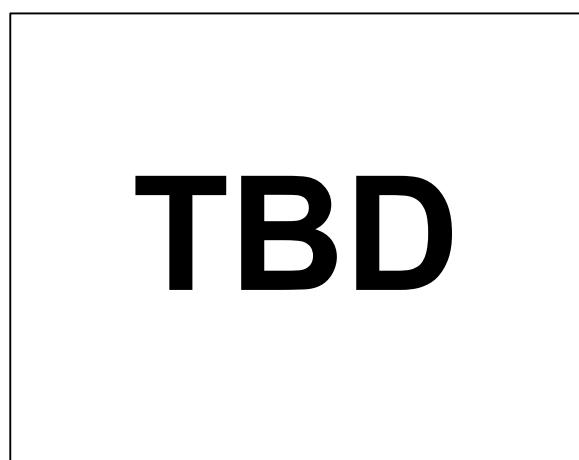


Figure 7. Insertion Loss and Return Loss vs RF Frequency for 9% Bandwidth at 90 MHz

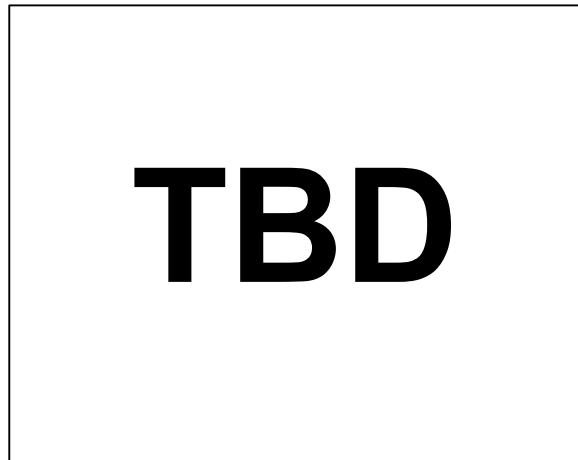


Figure 5. Insertion Loss and Group Delay vs RF Frequency for 9% Bandwidth at 30 MHz

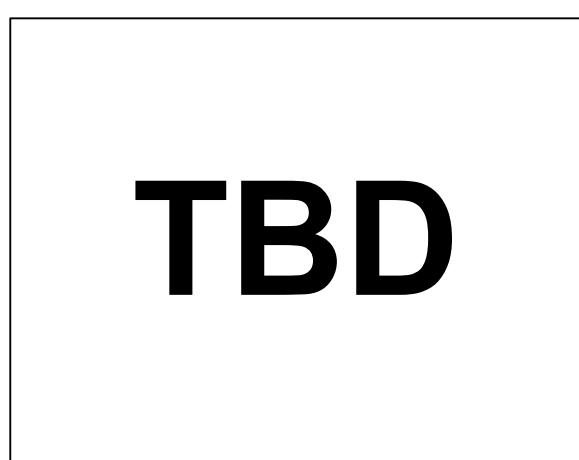


Figure 8. Insertion Loss and Group Delay vs RF Frequency for 9% Bandwidth at 90 MHz

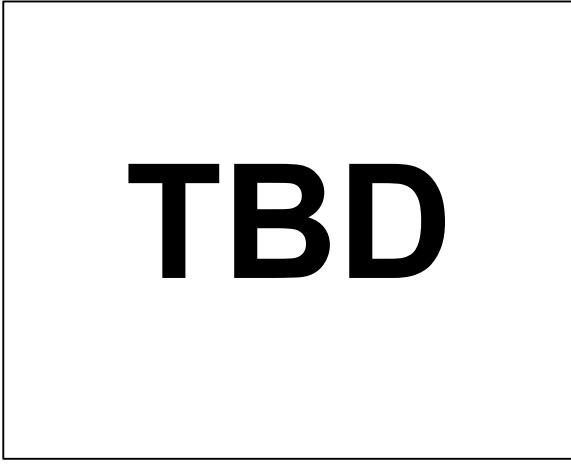
**TBD**

Figure 9. Insertion Loss vs RF Frequency at 30 MHz and Various Bandwidths

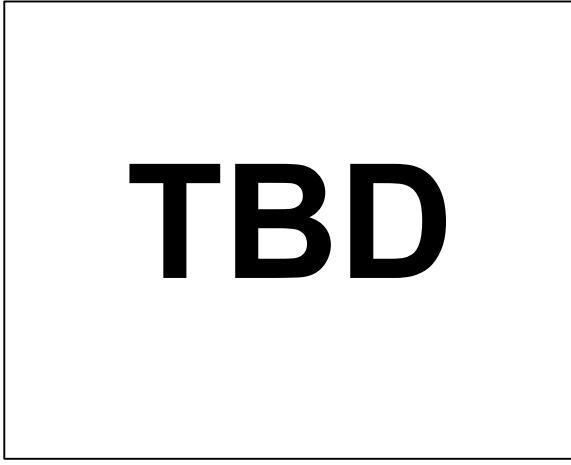
**TBD**

Figure 12. Insertion Loss vs RF Frequency at 90 MHz and Various Bandwidths

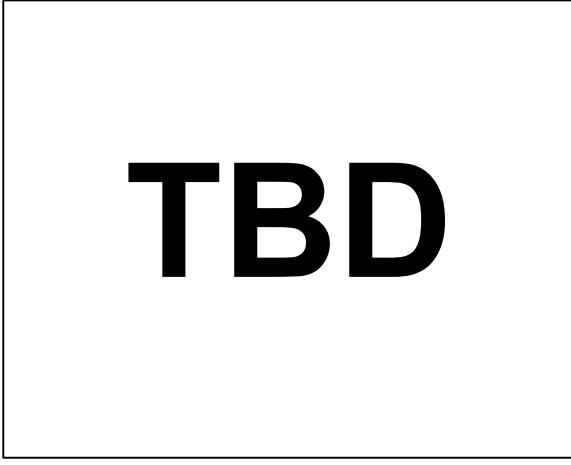
**TBD**

Figure 10. Input IP3 vs. RF Frequency for Condition TBD and Various Temperatures

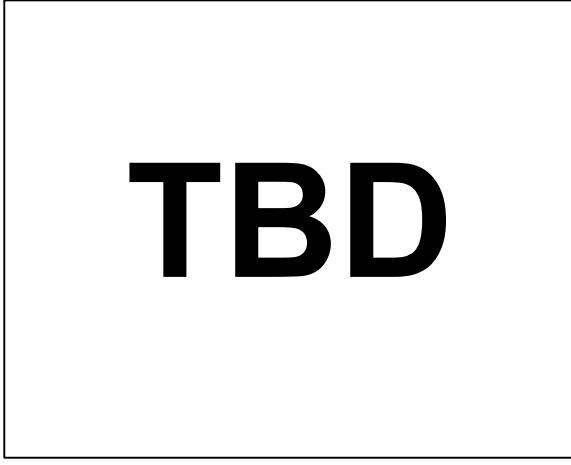
**TBD**

Figure 13. Input P0.1dB vs. RF Frequency for Condition TBD and Various Temperatures

**TBD**

Figure 11. Residual Phase Noise vs Offset Frequency

**TBD**

Figure 14. Center Frequency and Step Size vs FC_LOAD

THEORY OF OPERATION

CHIP ARCHITECTURE

The ADMV8052 contains three band-pass filters and an optional bypass configuration selectable by two SP4T switches. The device provides full coverage over the frequency band without any dead zones. Figure 1 is a conceptual block diagram of the ADMV8052.

Each band within the ADMV8052 contains several switched capacitors that allow the RF performance to be varied. A simplified diagram of the filter architecture is shown below in Figure 15.

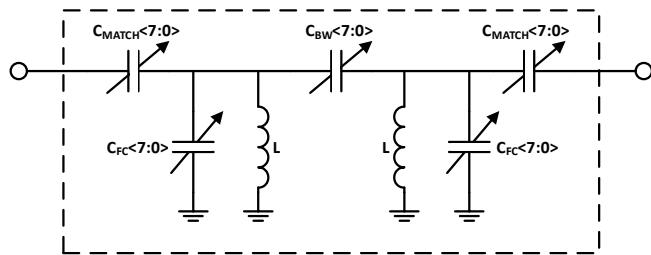


Figure 15. Simplified Filter Architecture Diagram

The two C_{FC} capacitors are configured by the FC load value, that will manipulate the center frequency of the filter. Likewise, the C_{BW} capacitor is configured by the BW load value, that will adjust bandwidth response of the filter. Additionally, the two C_{MATCH} capacitors are set by the MATCH load value, that will allow for adjustments to impedance matching of the filter.

The FC, BW, and MATCH load values each have 256 states (8 bits). In theory there are over 16 Million possible states for FC, BW, and MATCH load values for each band within the ADMV8052. To simplify selection of these values, Analog Devices has developed three patent pending interpolation functions to ease implementation.

RF CONNECTIONS

The RF1 and RF2 pins of the ADMV8052 are DC coupled to on chip RF switches. If a dc voltage is present on the RF1 and RF2 pins from other components within the system, it is recommended to place dc blocking capacitors in series with these pins. The dc blocking capacitors must be selected based on the operating frequency of the filter. Generally, a value greater than 10 nF is sufficient to minimize insertion loss at the lower frequencies of operation. At higher frequencies of operation, it may be necessary to consider the parasitic elements of the selected capacitor. Figure 16 shows a general model of a capacitor with the parasitic elements. The parasitic series inductance (L_{ESL}) is typically of most concern given that its impedance can become dominant. The other parasitic elements, including the leakage resistance (R_L), the dielectric absorption resistance (R_{DA}), the dielectric absorption capacitance (C_{DA}), and electrical series resistance (R_{ESR}) are less critical elements for consideration but are shown here for completeness.

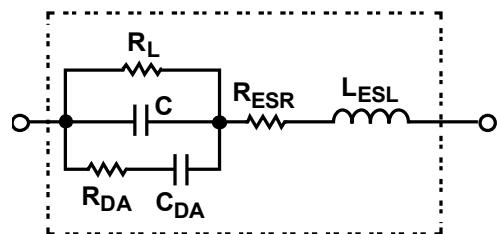


Figure 16. Model of a Capacitor

25603-049

SPI CONFIGURATION

The SPI of the ADMV8052 allows configuration of the device for specific functions or operations via the 5-pin SPI port. This interface provides users with added flexibility and customization. The SPI consists of five control lines: SFL, SCLK, SDI, SDO, and CS. For normal SPI operations, keep the SFL pin low.

The SPI protocol consists of an R/W bit followed by 15 register address bits and 8 data bits. The address field and data field are organized MSB first and end with the LSB.

Set the MSB to 0 for a write operation and set the MSB to 1 for a read operation. The write cycle must be sampled on the rising edge of SCLK. The 24 bits of the serial write address and data are shifted in on the SDI control line, MSB to LSB. The ADMV8052 input logic level for the write cycle supports a 3.3 V interface.

For a read cycle, the R/W bit and the 15 register address bits shift in on the rising edge of SCLK on the SDI control line. Then, 8 bits of serial read data shift out on the SDO control line, MSB first, on the falling edge of SCLK. The output logic level for a read cycle is 3.3 V. The output drivers of the SDO are enabled after the last rising edge of SCLK of the instruction cycle and remain active until the end of the read cycle. In a read operation, when CS is deasserted, SDO returns to high impedance until the next read transaction. CS is active low and must be deasserted at the end of the write or read sequence.

An active low input on CS starts and gates a communication cycle. The CS pin allows more than one device to be used on the same serial communications lines. The SDO pin goes to a high impedance state when the CS input is high. During the communication cycle, the chip select must stay low. The SPI communications protocol follows the Analog Devices SPI standard. For more information, see the [ADI-SPI Serial Control Interface Standard \(Rev 1.0\)](#).

MODE SELECTION

The ADMV8052 has two modes of operation: SPI write and SPI fast latch. SPI write mode is the normal operating mode, whereas SPI fast latch mode is used to sequence through the on-chip lookup table (LUT) using the internal state machine. To select SPI write mode, set the SFL pin low. For operation in SPI fast latch mode, program the on-chip lookup table and fast latch parameters with the SFL pin low, and then bring the SFL pin high to enter this mode. Figure 17 shows a simplified representation of the SPI with the register map and internal state machine. Refer to the programming flow chart in Figure 22 for the typical steps to operate in each mode.

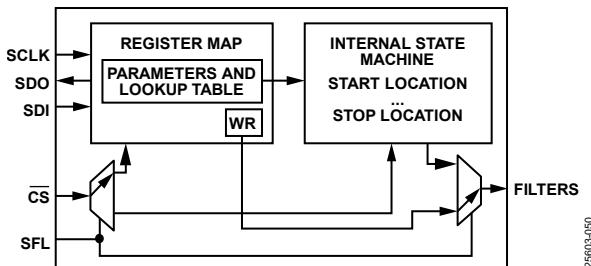


Figure 17. Simplified SPI Diagram

SPI WRITE MODE

The SPI Write mode has four write groupings, WR0 through WR3 in registers 0x020 through 0x02F. The groupings can be thought of as a small lookup table for the SPI Write mode. Each group consists of the following:

- Switch Position
- Switch Set
- FC Load Value
- BW Load Value
- MATCH Load Value

See the Register Details section for an example of the write grouping of WR0 (Register 0x020 and Register 0x023).

SWITCH POSITIONS

The ADMV8052 contains three band-pass filters and an optional bypass, that is selectable by using the on-chip RF switches. The Switch Position bits will dictate which filter the FC, BW, and MATCH load values will be assigned. For example in write group WR0 (register 0x020), when SW_WR0 is set for band 2, then FC_LOAD_WR0 (register 0x021), BW_LOAD_WR0 (register 0x022), and MATCH_LOAD_WR0 (register 0x023) will be applied to band-pass filter 2.

SWITCH SET

The Switch Set bit is used to determine if the Switch Position shall be moved to that setting. This can be useful for configuring a filter to a known state and leaving the switch position unchanged (switch set bit low). For most applications the switch set bit would be high.

WRITE GROUP PRIORITY

In SPI Write mode, because there are four write groupings, it is possible that multiple switch set bits are high. The behavior of the switches will depend upon the type of SPI transaction, either streaming or single instruction.

In general, there are two types of SPI streaming transactions, Endian register ascending order and descending order. The ADMV8052 supports the ascending order only. To enable SPI streaming with Endian register ascending order, program Register 0x000 to 0x3C.

For SPI streaming transactions (recommended) the priority order for the switch set bits will be WR0 to WR3. The SPI streaming transaction for Register 0x020 to Register 0x02F then points to Address 0x020 and streams out 16 bytes of data. The SPI streaming transaction is 144 bits in total (R/W bit + 15 address bits + 128 data bits).

An example of the priority order for an SPI streaming transaction follows: if the switch set bits are high for both WR1 and WR2, the resulting switch positions are the positions programmed in WR1.

For SPI single instruction transactions, the most recently programmed switch set will take effect to move the switch positions.

To use SPI single instruction transactions, the switch register must be written first followed by the filter setting registers. For example, to use write grouping WR0, Register 0x020 would be written first using a 24 bit transaction (R/W bit + 15 bits address + 8 bits data), followed by writing Register 0x021, Register 0x022, and Register 0x023, each using a 24 bit transaction.

INTERPOLATION FUNCTIONS

The ADMV8052 has three interpolation functions that allow the user to specify only the center frequency of the filter using the FC load value, and then the appropriate capacitor codes will be determined automatically. To enable these functions, the INTERPOLATE bit (register 0x050) must be set high. Shown below in Figure 18 is a simplified diagram of the interpolation functions.

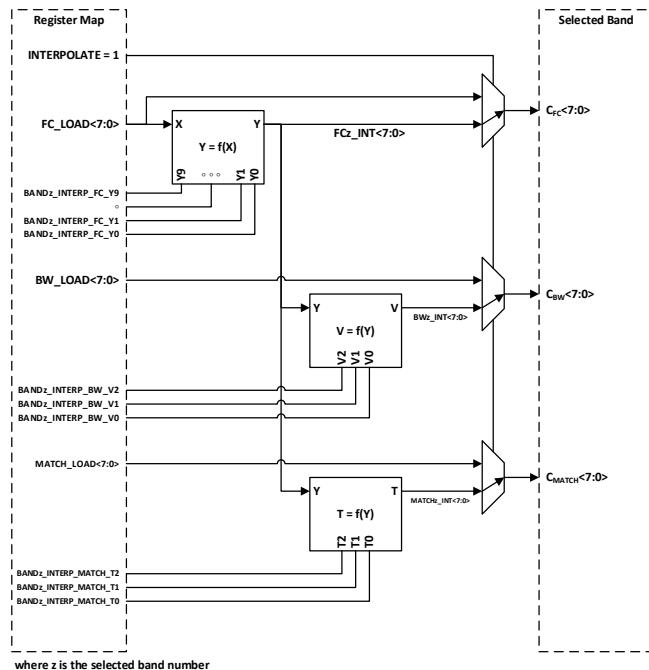


Figure 18. Interpolation Diagram

When the interpolation functions are enabled, the FC load range will be 0 to 255, where 0 corresponds to the lowest frequency within a band, and 255 corresponds to the highest frequency within a band. For example, when band 1 is selected, a value of 0 would correspond to approximately 30MHz, and a value of 255 would correspond to approximately 90MHz. The FC load value will be used to determine the appropriate capacitor codes based upon the on-chip interpolation coefficients.

By default, the recommended interpolation coefficients are set for 9% bandwidth. The interpolation coefficients can be adjusted to achieve bandwidths between 7 and 11% with reasonable insertion loss. Narrower bandwidth down to approximately 5% can also be achieved at the expense of insertion loss.

INTERPOLATION EQUATIONS

Below are equations describing the input to the interpolation functions:

$$F_{CMIN} = \min(\text{Minimum Center Frequency for Selected Band})$$

$$F_{CMAX} = \max(\text{Maximum Center Frequency for Selected Band})$$

$$F_{CSTEP} \approx \frac{F_{CMAX} - F_{CMIN}}{255}$$

$$X = FC_LOAD < 7:0 >$$

The anticipated center frequency of the filter is then computed as:

$$F_C \approx F_{CMIN} + F_{CSTEP} \cdot X$$

The equations for the interpolation function $Y = f(X)$ that determines the center frequency capacitor codes are as follows:

Condition	Logic Shift Form
if($0 \leq X < 16$)	$Y = Y_1 + [(16 - X)(Y_0 - Y_1) \gg 4]$
if($16 \leq X < 32$)	$Y = Y_2 + [(32 - X)(Y_1 - Y_2) \gg 4]$
if($32 \leq X < 64$)	$Y = Y_3 + [(64 - X)(Y_2 - Y_3) \gg 5]$
if($64 \leq X < 96$)	$Y = Y_4 + [(96 - X)(Y_3 - Y_4) \gg 5]$
if($96 \leq X < 128$)	$Y = Y_5 + [(128 - X)(Y_4 - Y_5) \gg 5]$
if($128 \leq X < 160$)	$Y = Y_6 + [(160 - X)(Y_5 - Y_6) \gg 5]$
if($160 \leq X < 192$)	$Y = Y_7 + [(192 - X)(Y_6 - Y_7) \gg 5]$
if($192 \leq X < 224$)	$Y = Y_8 + [(224 - X)(Y_7 - Y_8) \gg 5]$
if($224 \leq X < 255$)	$Y = Y_9 + [(256 - X)(Y_8 - Y_9) \gg 5]$
else	$Y = Y_9$

where Y_0 to Y_9 are the FC coefficients for the selected band

The equations for the interpolation function $V = f(Y)$ that determines the bandwidth capacitor codes are as follows:

Condition	Logic Shift Form
if($0 \leq Y < 32$)	$V = V_0 + [(Y \cdot (V_1 - V_0)) \gg 5]$
if($32 \leq Y < 255$)	$V = V_1 + [(Y - 32)(V_2 - V_1) \cdot 295) \gg 16]$
else	$V = V_2$

where V_0 to V_2 are the BW coefficients for the selected band

The equations for the interpolation function $T = f(Y)$ that determines the bandwidth capacitor codes are as follows:

Condition	Logic Shift Form
if($0 \leq Y < 32$)	$T = T_0 + [(Y \cdot (T_1 - T_0)) \gg 5]$
if($32 \leq Y < 255$)	$T = T_1 + [(Y - 32)(T_2 - T_1) \cdot 295) \gg 16]$
else	$T = T_2$

where T_0 to T_2 are the MATCH coefficients for the selected band

INTERPOLATION TABLES

Solving the interpolation equations for the lower bounds of each condition in the interpolation function $Y = f(X)$ yields the following table:

X	F_C	$Y = f(X)$
0	$F_C \approx F_{CMIN}$	Y_0
16	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 16$	Y_1
32	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 32$	Y_2
64	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 64$	Y_3
96	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 96$	Y_4
128	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 128$	Y_5
160	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 160$	Y_6
192	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 192$	Y_7
224	$F_C \approx F_{CMIN} + F_{CSTEP} \cdot 224$	Y_8
255	$F_C \approx F_{CMAX}$	Y_9

Table 6.

Similarly, solving the equations for the lower bounds of each condition in the interpolation functions $V = f(Y)$ and $T = f(Y)$ yields:

Y	$V = f(Y)$	$T = f(Y)$
0	V_0	T_0
32	V_1	T_1
255	V_2	T_2

Table 7.

INTERPOLATION PLOTS

To garner a visual representation of the interpolation functions, the interpolation coefficients vs their input (from the interpolation tables) can be plotted on a scatter plot. Shown below in Figure 19, Figure 20, and Figure 21 are the interpolation functions Y, V, and T using the interpolation coefficients for band 1.

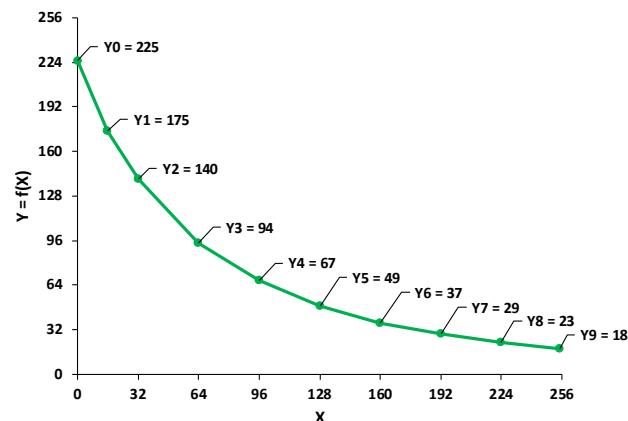


Figure 19. Interpolation Function $Y = f(X)$

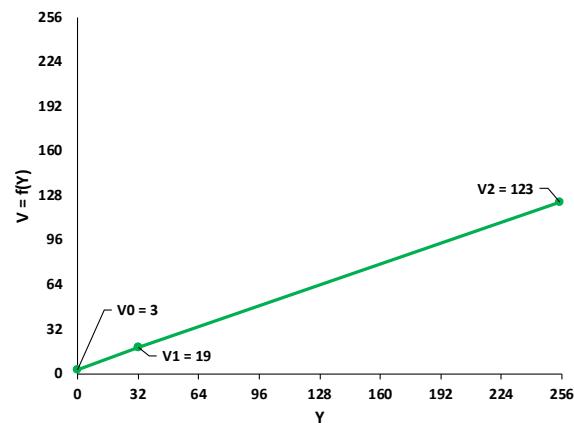


Figure 20. Interpolation Function $V = f(Y)$

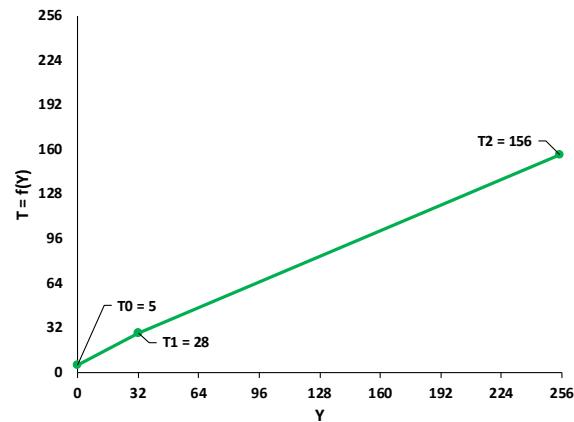


Figure 21. Interpolation Function $T = f(Y)$

INTERPOLATION COEFFICIENT CALIBRATION

There are two primary reasons the interpolation coefficients would need to be calibrated, one is to account for chip process variation, and the second is if a different operating bandwidth is desired. The calibration of interpolation coefficients would normally follow a four phase process, as shown in Figure 23.

For the first calibration phase, the bandwidth and match coefficients V_1 and T_1 are determined for a desired bandwidth. To perform this calibration phase, the FC load value needs to be set to 32, and then the BW and MATCH load values are adjusted. Once satisfied with the results, the V_1 and T_1 coefficients can be set to the BW and MATCH load values, respectively.

For the second calibration phase, the bandwidth and match coefficients V_2 and T_2 are determined for a desired bandwidth. To perform this calibration phase, the FC load value needs to be set to high value (180 is recommended), and then the BW and MATCH load values are adjusted. Once satisfied with the results, the V_2 coefficient can be adjusted so that the computed result of the $V = f(Y) = f(180)$ is equal to the BW load value. Similarly, the T_2 coefficient can be adjusted so that the computed result of the $T = f(Y) = f(180)$ is equal to the MATCH load value.

For the third calibration phase, the bandwidth and match coefficients V_0 and T_0 are determined for a desired bandwidth. To perform this calibration phase, the FC load value needs to be set to low value (18 is recommended), and then the BW and MATCH load values are adjusted. Once satisfied with the results, the V_0 coefficient can be adjusted so that the computed result of the $V = f(Y) = f(18)$ is equal to the BW load value. Similarly, the T_0 coefficient can be adjusted so that the computed result of the $T = f(Y) = f(18)$ is equal to the MATCH load value.

For the fourth calibration phase, adjustments are made to all of the Y coefficients to ensure the operating center frequency is as close as possible to the anticipated center frequency. To perform this calibration phase, use Table 6 as a reference for determining the target frequency for each Y coefficient. For each X value listed in Table 6, compute the Y, V, and T functions, and then set the FC, BW, and MATCH load values, respectively.

FILTER CODE READ BACK

The capacitor codes that are applied in each band can be read back from the chip using Register 0x060 to Register 0x069. These registers represent the actual state of the capacitors on chip, as well as the position of the RF switches. This information can be useful for debugging purposes or during interpolation coefficient calibration.

TRACKING

The ADMV8052 contains a tracking function, whereby if the capacitor codes of one band are updated, then the other two bands on chip will also have the same capacitor codes applied. To enable this function, set the TRACK bit high in register 0x050.

SPI FAST LATCH MODE

The ADMV8052 has a 128 state lookup table and an internal state machine that is useful for quickly changing filter states in SPI fast latch mode. When the SFL pin is high, SPI fast latch mode is enabled, and the internal state machine sequences on each rising edge of the \overline{CS} pin.

The lookup table has 128 groupings, LUT0 through LUT127, in Register 0x100 through Register 0x2FF. Each grouping consists of the same type of parameters as those of SPI write mode.

The functionality of the switch positions and filter state bits for SPI fast latch mode is similar to those of SPI write mode. That is, the filter state bits are assigned based on the switch position bits. However, the switch set parameters do not contain any priority. If the switch set bit is enabled for a particular LUT, the switch positions change.

The functionality of the internal state machine is such that on each rising edge of the \overline{CS} pin, the internal state machine sequences a pointer based on the programmed direction. The internal state machine has the following parameters:

- FAST_LATCH_STOP (Register 0x11)
- FAST_LATCH_START (Register 0x12)
- FAST_LATCH_DIRECTION (Register 0x13)
- FAST_LATCH_STATE (Register 0x14)

The FAST_LATCH_STATE is the next LUT grouping that is selected on the next rising edge of the \overline{CS} pin. The FAST_LATCH_STATE is considered the internal pointer location.

When the FAST_LATCH_DIRECTION bit is set to zero, the sequencing direction is incremental. When the FAST_LATCH_DIRECTION bit is set to one, the sequencing direction is decremental.

The FAST_LATCH_START and FAST_LATCH_STOP bits are used to set the start and stop location, respectively. For incremental direction, the internal state machine sequences from the start location to the stop location and then rolls over to the start location. For the decremental direction, the sequence is from the stop location to the start location and then rolls over to the stop location.

The FAST_LATCH_STATE internal pointer will be set to the values stored in FAST_LATCH_START for the incremental direction. For the decremental direction the internal pointer will be set to the values stored in FAST_LATCH_STOP. For this transaction to occur one rising edge of the \overline{CS} pin is necessary. By nature this occurs during a SPI transaction in the SPI Write mode. However, when exiting the SPI Fast Latch mode (SFL pin

brought low), be sure to toggle the \overline{CS} pin low then high or perform a SPI transaction, so that the FAST_LATCH_STATE is refreshed to either the start or stop location accordingly.

CHIP RESET

There are two methods that can be used to reset the ADMV8052 registers to their default power-on state, a hard reset and a soft reset. The hard reset utilizes the \overline{RST} pin, and the soft reset utilizes Register 0x000.

To perform a hard reset, momentarily bring the \overline{RST} pin low and then high. See Figure 2 for the minimum required duration time for the \overline{RST} pin to be low.

To perform a soft reset, program Register 0x000 to a value of 0x81. This action sets the SOFTRESET and SOFTRESET_ bits high to initiate the reset. The SOFTRESET and SOFTRESET_ bits are self resetting once the reset operation is complete.

Regardless of the reset method used, it is recommended to perform the following after the chip resets:

- Program Register 0x000 to 0x3C to enable the SDO pin and allow SPI streaming with Endian ascending order.
- Read back all registers on the chip.

APPLICATIONS INFORMATION

PCB DESIGN GUIDELINES

The PCB used to implement the ADMV8052 can use a standard quality dielectric material between the top metallization layer and internal ground layer, such as the Isola 370HR. It does not need to be the Rogers 4003 or the Rogers 4350. The characteristic impedance of the transmission lines to the RF1 and RF2 pins of the ADMV8052 should be controlled to $50\ \Omega$ to ensure optimal RF performance. Connect the GND pins and exposed pads of the ADMV8052 directly to the ground plane of the PCB. Use a sufficient number of via holes to connect the top and bottom ground planes of the PCB.

FLOW CHARTS

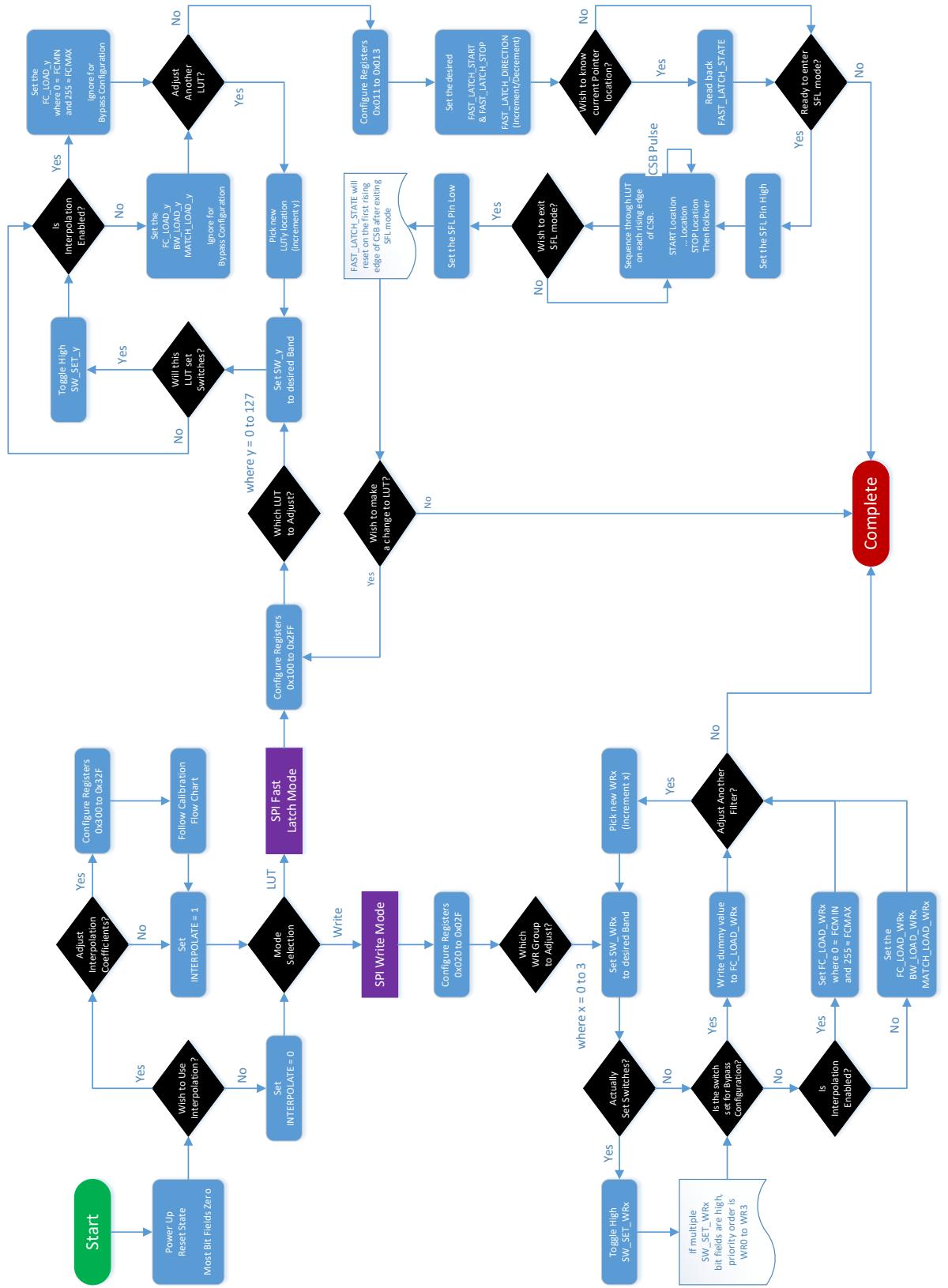


Figure 22. Programming Flow Chart

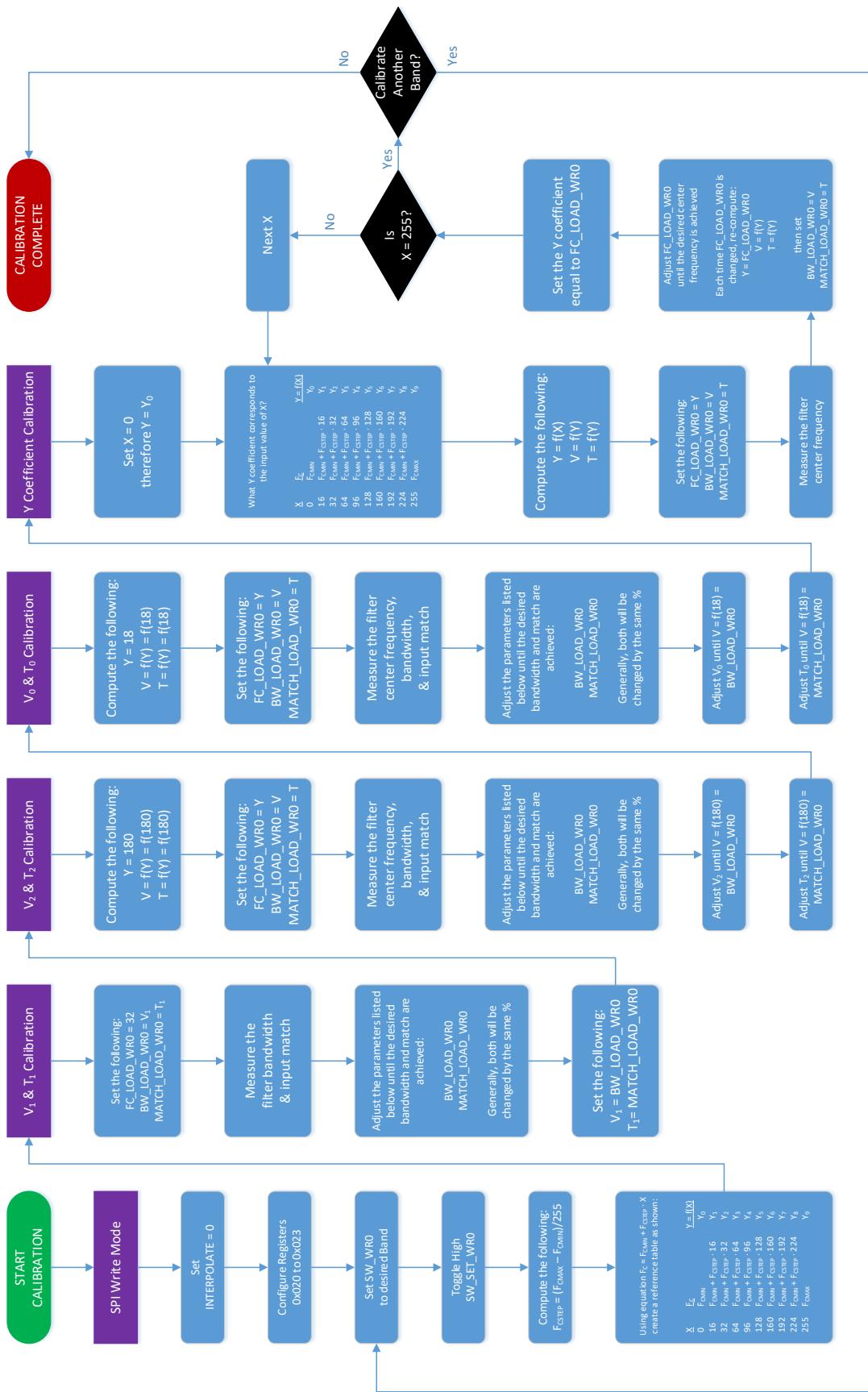


Figure 23. Interpolation Coefficient Calibration Flow Chart

REGISTER SUMMARY

Table 8. ADMV8052 Register Summary

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW						
0x000	ADI_SPI_CONFIG_A	[7:0]	SOFTRESET	LSB_FIRST	ENDIAN_-	SDOACTIVE	SDOACTIVE	ENDIAN	LSB_FIRST	SOFTRESET	0x00	R/W						
0x001	ADI_SPI_CONFIG_B	[7:0]	SINGLE_INSTRUCTIO N	CSB_STALL	MASTER_SLA VE_RB	RESERVED				MASTER_SLA VE_TRA NSFER	0x00	R/W						
0x003	CHIPTYPE	[7:0]	CHIPTYPE								0x01	R						
0x004	PRODUCT_ID_L	[7:0]	PRODUCT_ID_L								0x52	R						
0x005	PRODUCT_ID_H	[7:0]	PRODUCT_ID_H								0x80	R						
0x011	FAST_LATCH_STOP	[7:0]	RESERVED	FAST_LATCH_STOP								0x7F	R/W					
0x012	FAST_LATCH_START	[7:0]	RESERVED	FAST_LATCH_START								0x00	R/W					
0x013	FAST_LATCH_DIRECTION	[7:0]	RESERVED								FAST_LAT CH_DIREC TION	0x00	R/W					
0x014	FAST_LATCH_STATE	[7:0]	RESERVED	FAST_LATCH_STATE								0x00	R					
0x020	WR0_SW	[7:0]	SW_SET_WR0	RESERVED				SW_WR0				0x00	R/W					
0x021	WR0_FC	[7:0]	FC_LOAD_WRO								0x00	R/W						
0x022	WR0_BW	[7:0]	BW_LOAD_WRO								0x00	R/W						
0x023	WR0_MATCH	[7:0]	MATCH_LOAD_WRO								0x00	R/W						
0x024	WR1_SW	[7:0]	SW_SET_WR1	RESERVED				SW_WR1				0x00	R/W					
0x025	WR1_FC	[7:0]	FC_LOAD_WR1								0x00	R/W						
0x026	WR1_BW	[7:0]	BW_LOAD_WR1								0x00	R/W						
0x027	WR1_MATCH	[7:0]	MATCH_LOAD_WR1								0x00	R/W						
0x028	WR2_SW	[7:0]	SW_SET_WR2	RESERVED				SW_WR2				0x00	R/W					
0x029	WR2_FC	[7:0]	FC_LOAD_WR2								0x00	R/W						
0x02A	WR2_BW	[7:0]	BW_LOAD_WR2								0x00	R/W						
0x02B	WR2_MATCH	[7:0]	MATCH_LOAD_WR2								0x00	R/W						
0x02C	WR3_SW	[7:0]	SW_SET_WR3	RESERVED				SW_WR3				0x00	R/W					
0x02D	WR3_FC	[7:0]	FC_LOAD_WR3								0x00	R/W						
0x02E	WR3_BW	[7:0]	BW_LOAD_WR3								0x00	R/W						
0x02F	WR3_MATCH	[7:0]	MATCH_LOAD_WR3								0x00	R/W						
0x050	FILTER_CONFIG	[7:0]	RESERVED				DEBUG		TRACK	INTERPOLATE	0x00	R/W						
0x060	FC1_READBACK	[7:0]	FC1_READBACK								0x00	R						
0x061	FC2_READBACK	[7:0]	FC2_READBACK								0x00	R						
0x062	FC3_READBACK	[7:0]	FC3_READBACK								0x00	R						
0x063	BW1_READBACK	[7:0]	BW1_READBACK								0x00	R						
0x064	BW2_READBACK	[7:0]	BW2_READBACK								0x00	R						
0x065	BW3_READBACK	[7:0]	BW3_READBACK								0x00	R						
0x066	MATCH1_READBACK	[7:0]	MATCH1_READBACK								0x00	R						
0x067	MATCH2_READBACK	[7:0]	MATCH2_READBACK								0x00	R						
0x068	MATCH3_READBACK	[7:0]	MATCH3_READBACK								0x00	R						
0x069	SW_READBACK	[7:0]	RESERVED				SW_READBACK				0x00	R						
0x070	FC1_DEBUG	[7:0]	FC1_DEBUG								0x00	R/W						
0x071	FC2_DEBUG	[7:0]	FC2_DEBUG								0x00	R/W						
0x072	FC3_DEBUG	[7:0]	FC3_DEBUG								0x00	R/W						
0x073	BW1_DEBUG	[7:0]	BW1_DEBUG								0x00	R/W						
0x074	BW2_DEBUG	[7:0]	BW2_DEBUG								0x00	R/W						
0x075	BW3_DEBUG	[7:0]	BW3_DEBUG								0x00	R/W						
0x076	MATCH1_DEBUG	[7:0]	MATCH1_DEBUG								0x00	R/W						
0x077	MATCH2_DEBUG	[7:0]	MATCH2_DEBUG								0x00	R/W						
0x078	MATCH3_DEBUG	[7:0]	MATCH3_DEBUG								0x00	R/W						
0x079	SW_DEBUG	[7:0]	RESERVED				SW_DEBUG				0x00	R/W						
0x100	LUTO_SW	[7:0]	SW_SET_0	RESERVED				SW_0		0x00	R/W							
0x101	LUTO_FC	[7:0]	FC_LOAD_0								0x00	R/W						
0x102	LUTO_BW	[7:0]	BW_LOAD_0								0x00	R/W						
0x103	LUTO_MATCH	[7:0]	MATCH_LOAD_0								0x00	R/W						
0x104	LUT1_SW	[7:0]	SW_SET_1	RESERVED				SW_1		0x00	R/W							
0x105	LUT1_FC	[7:0]	FC_LOAD_1								0x00	R/W						

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x106	LUT1_BW	[7:0]				BW_LOAD_1					0x00	R/W
0x107	LUT1_MATCH	[7:0]				MATCH_LOAD_1					0x00	R/W
0x108	LUT2_SW	[7:0]	SW_SET_2			RESERVED			SW_2		0x00	R/W
0x109	LUT2_FC	[7:0]				FC_LOAD_2					0x00	R/W
0x10A	LUT2_BW	[7:0]				BW_LOAD_2					0x00	R/W
0x10B	LUT2_MATCH	[7:0]				MATCH_LOAD_2					0x00	R/W
0x10C	LUT3_SW	[7:0]	SW_SET_3			RESERVED			SW_3		0x00	R/W
0x10D	LUT3_FC	[7:0]				FC_LOAD_3					0x00	R/W
0x10E	LUT3_BW	[7:0]				BW_LOAD_3					0x00	R/W
0x10F	LUT3_MATCH	[7:0]				MATCH_LOAD_3					0x00	R/W
0x110	LUT4_SW	[7:0]	SW_SET_4			RESERVED			SW_4		0x00	R/W
0x111	LUT4_FC	[7:0]				FC_LOAD_4					0x00	R/W
0x112	LUT4_BW	[7:0]				BW_LOAD_4					0x00	R/W
0x113	LUT4_MATCH	[7:0]				MATCH_LOAD_4					0x00	R/W
0x114	LUT5_SW	[7:0]	SW_SET_5			RESERVED			SW_5		0x00	R/W
0x115	LUT5_FC	[7:0]				FC_LOAD_5					0x00	R/W
0x116	LUT5_BW	[7:0]				BW_LOAD_5					0x00	R/W
0x117	LUT5_MATCH	[7:0]				MATCH_LOAD_5					0x00	R/W
0x118	LUT6_SW	[7:0]	SW_SET_6			RESERVED			SW_6		0x00	R/W
0x119	LUT6_FC	[7:0]				FC_LOAD_6					0x00	R/W
0x11A	LUT6_BW	[7:0]				BW_LOAD_6					0x00	R/W
0x11B	LUT6_MATCH	[7:0]				MATCH_LOAD_6					0x00	R/W
0x11C	LUT7_SW	[7:0]	SW_SET_7			RESERVED			SW_7		0x00	R/W
0x11D	LUT7_FC	[7:0]				FC_LOAD_7					0x00	R/W
0x11E	LUT7_BW	[7:0]				BW_LOAD_7					0x00	R/W
0x11F	LUT7_MATCH	[7:0]				MATCH_LOAD_7					0x00	R/W
0x120	LUT8_SW	[7:0]	SW_SET_8			RESERVED			SW_8		0x00	R/W
0x121	LUT8_FC	[7:0]				FC_LOAD_8					0x00	R/W
0x122	LUT8_BW	[7:0]				BW_LOAD_8					0x00	R/W
0x123	LUT8_MATCH	[7:0]				MATCH_LOAD_8					0x00	R/W
0x124	LUT9_SW	[7:0]	SW_SET_9			RESERVED			SW_9		0x00	R/W
0x125	LUT9_FC	[7:0]				FC_LOAD_9					0x00	R/W
0x126	LUT9_BW	[7:0]				BW_LOAD_9					0x00	R/W
0x127	LUT9_MATCH	[7:0]				MATCH_LOAD_9					0x00	R/W
0x128	LUT10_SW	[7:0]	SW_SET_10			RESERVED			SW_10		0x00	R/W
0x129	LUT10_FC	[7:0]				FC_LOAD_10					0x00	R/W
0x12A	LUT10_BW	[7:0]				BW_LOAD_10					0x00	R/W
0x12B	LUT10_MATCH	[7:0]				MATCH_LOAD_10					0x00	R/W
0x12C	LUT11_SW	[7:0]	SW_SET_11			RESERVED			SW_11		0x00	R/W
0x12D	LUT11_FC	[7:0]				FC_LOAD_11					0x00	R/W
0x12E	LUT11_BW	[7:0]				BW_LOAD_11					0x00	R/W
0x12F	LUT11_MATCH	[7:0]				MATCH_LOAD_11					0x00	R/W
0x130	LUT12_SW	[7:0]	SW_SET_12			RESERVED			SW_12		0x00	R/W
0x131	LUT12_FC	[7:0]				FC_LOAD_12					0x00	R/W
0x132	LUT12_BW	[7:0]				BW_LOAD_12					0x00	R/W
0x133	LUT12_MATCH	[7:0]				MATCH_LOAD_12					0x00	R/W
0x134	LUT13_SW	[7:0]	SW_SET_13			RESERVED			SW_13		0x00	R/W
0x135	LUT13_FC	[7:0]				FC_LOAD_13					0x00	R/W
0x136	LUT13_BW	[7:0]				BW_LOAD_13					0x00	R/W
0x137	LUT13_MATCH	[7:0]				MATCH_LOAD_13					0x00	R/W
0x138	LUT14_SW	[7:0]	SW_SET_14			RESERVED			SW_14		0x00	R/W
0x139	LUT14_FC	[7:0]				FC_LOAD_14					0x00	R/W
0x13A	LUT14_BW	[7:0]				BW_LOAD_14					0x00	R/W
0x13B	LUT14_MATCH	[7:0]				MATCH_LOAD_14					0x00	R/W
0x13C	LUT15_SW	[7:0]	SW_SET_15			RESERVED			SW_15		0x00	R/W
0x13D	LUT15_FC	[7:0]				FC_LOAD_15					0x00	R/W
0x13E	LUT15_BW	[7:0]				BW_LOAD_15					0x00	R/W
0x13F	LUT15_MATCH	[7:0]				MATCH_LOAD_15					0x00	R/W
0x140	LUT16_SW	[7:0]	SW_SET_16			RESERVED			SW_16		0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x141	LUT16_FC	[7:0]									0x00	R/W
0x142	LUT16_BW	[7:0]									0x00	R/W
0x143	LUT16_MATCH	[7:0]									0x00	R/W
0x144	LUT17_SW	[7:0]	SW_SET_1 7				RESERVED			SW_17	0x00	R/W
0x145	LUT17_FC	[7:0]									0x00	R/W
0x146	LUT17_BW	[7:0]									0x00	R/W
0x147	LUT17_MATCH	[7:0]									0x00	R/W
0x148	LUT18_SW	[7:0]	SW_SET_1 8				RESERVED			SW_18	0x00	R/W
0x149	LUT18_FC	[7:0]									0x00	R/W
0x14A	LUT18_BW	[7:0]									0x00	R/W
0x14B	LUT18_MATCH	[7:0]									0x00	R/W
0x14C	LUT19_SW	[7:0]	SW_SET_1 9				RESERVED			SW_19	0x00	R/W
0x14D	LUT19_FC	[7:0]									0x00	R/W
0x14E	LUT19_BW	[7:0]									0x00	R/W
0x14F	LUT19_MATCH	[7:0]									0x00	R/W
0x150	LUT20_SW	[7:0]	SW_SET_2 0				RESERVED			SW_20	0x00	R/W
0x151	LUT20_FC	[7:0]									0x00	R/W
0x152	LUT20_BW	[7:0]									0x00	R/W
0x153	LUT20_MATCH	[7:0]									0x00	R/W
0x154	LUT21_SW	[7:0]	SW_SET_2 1				RESERVED			SW_21	0x00	R/W
0x155	LUT21_FC	[7:0]									0x00	R/W
0x156	LUT21_BW	[7:0]									0x00	R/W
0x157	LUT21_MATCH	[7:0]									0x00	R/W
0x158	LUT22_SW	[7:0]	SW_SET_2 2				RESERVED			SW_22	0x00	R/W
0x159	LUT22_FC	[7:0]									0x00	R/W
0x15A	LUT22_BW	[7:0]									0x00	R/W
0x15B	LUT22_MATCH	[7:0]									0x00	R/W
0x15C	LUT23_SW	[7:0]	SW_SET_2 3				RESERVED			SW_23	0x00	R/W
0x15D	LUT23_FC	[7:0]									0x00	R/W
0x15E	LUT23_BW	[7:0]									0x00	R/W
0x15F	LUT23_MATCH	[7:0]									0x00	R/W
0x160	LUT24_SW	[7:0]	SW_SET_2 4				RESERVED			SW_24	0x00	R/W
0x161	LUT24_FC	[7:0]									0x00	R/W
0x162	LUT24_BW	[7:0]									0x00	R/W
0x163	LUT24_MATCH	[7:0]									0x00	R/W
0x164	LUT25_SW	[7:0]	SW_SET_2 5				RESERVED			SW_25	0x00	R/W
0x165	LUT25_FC	[7:0]									0x00	R/W
0x166	LUT25_BW	[7:0]									0x00	R/W
0x167	LUT25_MATCH	[7:0]									0x00	R/W
0x168	LUT26_SW	[7:0]	SW_SET_2 6				RESERVED			SW_26	0x00	R/W
0x169	LUT26_FC	[7:0]									0x00	R/W
0x16A	LUT26_BW	[7:0]									0x00	R/W
0x16B	LUT26_MATCH	[7:0]									0x00	R/W
0x16C	LUT27_SW	[7:0]	SW_SET_2 7				RESERVED			SW_27	0x00	R/W
0x16D	LUT27_FC	[7:0]									0x00	R/W
0x16E	LUT27_BW	[7:0]									0x00	R/W
0x16F	LUT27_MATCH	[7:0]									0x00	R/W
0x170	LUT28_SW	[7:0]	SW_SET_2 8				RESERVED			SW_28	0x00	R/W
0x171	LUT28_FC	[7:0]									0x00	R/W
0x172	LUT28_BW	[7:0]									0x00	R/W
0x173	LUT28_MATCH	[7:0]									0x00	R/W
0x174	LUT29_SW	[7:0]	SW_SET_2 9				RESERVED			SW_29	0x00	R/W
0x175	LUT29_FC	[7:0]									0x00	R/W
0x176	LUT29_BW	[7:0]									0x00	R/W

Preliminary Technical Data

ADMV8052

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x177	LUT29_MATCH	[7:0]					MATCH_LOAD_29				0x00	R/W
0x178	LUT30_SW	[7:0]	SW_SET_30			RESERVED			SW_30		0x00	R/W
0x179	LUT30_FC	[7:0]					FC_LOAD_30				0x00	R/W
0x17A	LUT30_BW	[7:0]					BW_LOAD_30				0x00	R/W
0x17B	LUT30_MATCH	[7:0]					MATCH_LOAD_30				0x00	R/W
0x17C	LUT31_SW	[7:0]	SW_SET_31			RESERVED			SW_31		0x00	R/W
0x17D	LUT31_FC	[7:0]					FC_LOAD_31				0x00	R/W
0x17E	LUT31_BW	[7:0]					BW_LOAD_31				0x00	R/W
0x17F	LUT31_MATCH	[7:0]					MATCH_LOAD_31				0x00	R/W
0x180	LUT32_SW	[7:0]	SW_SET_32			RESERVED			SW_32		0x00	R/W
0x181	LUT32_FC	[7:0]					FC_LOAD_32				0x00	R/W
0x182	LUT32_BW	[7:0]					BW_LOAD_32				0x00	R/W
0x183	LUT32_MATCH	[7:0]					MATCH_LOAD_32				0x00	R/W
0x184	LUT33_SW	[7:0]	SW_SET_33			RESERVED			SW_33		0x00	R/W
0x185	LUT33_FC	[7:0]					FC_LOAD_33				0x00	R/W
0x186	LUT33_BW	[7:0]					BW_LOAD_33				0x00	R/W
0x187	LUT33_MATCH	[7:0]					MATCH_LOAD_33				0x00	R/W
0x188	LUT34_SW	[7:0]	SW_SET_34			RESERVED			SW_34		0x00	R/W
0x189	LUT34_FC	[7:0]					FC_LOAD_34				0x00	R/W
0x18A	LUT34_BW	[7:0]					BW_LOAD_34				0x00	R/W
0x18B	LUT34_MATCH	[7:0]					MATCH_LOAD_34				0x00	R/W
0x18C	LUT35_SW	[7:0]	SW_SET_35			RESERVED			SW_35		0x00	R/W
0x18D	LUT35_FC	[7:0]					FC_LOAD_35				0x00	R/W
0x18E	LUT35_BW	[7:0]					BW_LOAD_35				0x00	R/W
0x18F	LUT35_MATCH	[7:0]					MATCH_LOAD_35				0x00	R/W
0x190	LUT36_SW	[7:0]	SW_SET_36			RESERVED			SW_36		0x00	R/W
0x191	LUT36_FC	[7:0]					FC_LOAD_36				0x00	R/W
0x192	LUT36_BW	[7:0]					BW_LOAD_36				0x00	R/W
0x193	LUT36_MATCH	[7:0]					MATCH_LOAD_36				0x00	R/W
0x194	LUT37_SW	[7:0]	SW_SET_37			RESERVED			SW_37		0x00	R/W
0x195	LUT37_FC	[7:0]					FC_LOAD_37				0x00	R/W
0x196	LUT37_BW	[7:0]					BW_LOAD_37				0x00	R/W
0x197	LUT37_MATCH	[7:0]					MATCH_LOAD_37				0x00	R/W
0x198	LUT38_SW	[7:0]	SW_SET_38			RESERVED			SW_38		0x00	R/W
0x199	LUT38_FC	[7:0]					FC_LOAD_38				0x00	R/W
0x19A	LUT38_BW	[7:0]					BW_LOAD_38				0x00	R/W
0x19B	LUT38_MATCH	[7:0]					MATCH_LOAD_38				0x00	R/W
0x19C	LUT39_SW	[7:0]	SW_SET_39			RESERVED			SW_39		0x00	R/W
0x19D	LUT39_FC	[7:0]					FC_LOAD_39				0x00	R/W
0x19E	LUT39_BW	[7:0]					BW_LOAD_39				0x00	R/W
0x19F	LUT39_MATCH	[7:0]					MATCH_LOAD_39				0x00	R/W
0x1A0	LUT40_SW	[7:0]	SW_SET_40			RESERVED			SW_40		0x00	R/W
0x1A1	LUT40_FC	[7:0]					FC_LOAD_40				0x00	R/W
0x1A2	LUT40_BW	[7:0]					BW_LOAD_40				0x00	R/W
0x1A3	LUT40_MATCH	[7:0]					MATCH_LOAD_40				0x00	R/W
0x1A4	LUT41_SW	[7:0]	SW_SET_41			RESERVED			SW_41		0x00	R/W
0x1A5	LUT41_FC	[7:0]					FC_LOAD_41				0x00	R/W
0x1A6	LUT41_BW	[7:0]					BW_LOAD_41				0x00	R/W
0x1A7	LUT41_MATCH	[7:0]					MATCH_LOAD_41				0x00	R/W
0x1A8	LUT42_SW	[7:0]	SW_SET_42			RESERVED			SW_42		0x00	R/W
0x1A9	LUT42_FC	[7:0]					FC_LOAD_42				0x00	R/W
0x1AA	LUT42_BW	[7:0]					BW_LOAD_42				0x00	R/W
0x1AB	LUT42_MATCH	[7:0]					MATCH_LOAD_42				0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x1AC	LUT43_SW	[7:0]	SW_SET_43	RESERVED						SW_43	0x00	R/W
0x1AD	LUT43_FC	[7:0]	FC_LOAD_43						0x00		R/W	
0x1AE	LUT43_BW	[7:0]	BW_LOAD_43						0x00		R/W	
0x1AF	LUT43_MATCH	[7:0]	MATCH_LOAD_43						0x00		R/W	
0x1B0	LUT44_SW	[7:0]	SW_SET_44	RESERVED						SW_44	0x00	R/W
0x1B1	LUT44_FC	[7:0]	FC_LOAD_44						0x00		R/W	
0x1B2	LUT44_BW	[7:0]	BW_LOAD_44						0x00		R/W	
0x1B3	LUT44_MATCH	[7:0]	MATCH_LOAD_44						0x00		R/W	
0x1B4	LUT45_SW	[7:0]	SW_SET_45	RESERVED						SW_45	0x00	R/W
0x1B5	LUT45_FC	[7:0]	FC_LOAD_45						0x00		R/W	
0x1B6	LUT45_BW	[7:0]	BW_LOAD_45						0x00		R/W	
0x1B7	LUT45_MATCH	[7:0]	MATCH_LOAD_45						0x00		R/W	
0x1B8	LUT46_SW	[7:0]	SW_SET_46	RESERVED						SW_46	0x00	R/W
0x1B9	LUT46_FC	[7:0]	FC_LOAD_46						0x00		R/W	
0x1BA	LUT46_BW	[7:0]	BW_LOAD_46						0x00		R/W	
0x1BB	LUT46_MATCH	[7:0]	MATCH_LOAD_46						0x00		R/W	
0x1BC	LUT47_SW	[7:0]	SW_SET_47	RESERVED						SW_47	0x00	R/W
0x1BD	LUT47_FC	[7:0]	FC_LOAD_47						0x00		R/W	
0x1BE	LUT47_BW	[7:0]	BW_LOAD_47						0x00		R/W	
0x1BF	LUT47_MATCH	[7:0]	MATCH_LOAD_47						0x00		R/W	
0x1C0	LUT48_SW	[7:0]	SW_SET_48	RESERVED						SW_48	0x00	R/W
0x1C1	LUT48_FC	[7:0]	FC_LOAD_48						0x00		R/W	
0x1C2	LUT48_BW	[7:0]	BW_LOAD_48						0x00		R/W	
0x1C3	LUT48_MATCH	[7:0]	MATCH_LOAD_48						0x00		R/W	
0x1C4	LUT49_SW	[7:0]	SW_SET_49	RESERVED						SW_49	0x00	R/W
0x1C5	LUT49_FC	[7:0]	FC_LOAD_49						0x00		R/W	
0x1C6	LUT49_BW	[7:0]	BW_LOAD_49						0x00		R/W	
0x1C7	LUT49_MATCH	[7:0]	MATCH_LOAD_49						0x00		R/W	
0x1C8	LUT50_SW	[7:0]	SW_SET_50	RESERVED						SW_50	0x00	R/W
0x1C9	LUT50_FC	[7:0]	FC_LOAD_50						0x00		R/W	
0x1CA	LUT50_BW	[7:0]	BW_LOAD_50						0x00		R/W	
0x1CB	LUT50_MATCH	[7:0]	MATCH_LOAD_50						0x00		R/W	
0x1CC	LUT51_SW	[7:0]	SW_SET_51	RESERVED						SW_51	0x00	R/W
0x1CD	LUT51_FC	[7:0]	FC_LOAD_51						0x00		R/W	
0x1CE	LUT51_BW	[7:0]	BW_LOAD_51						0x00		R/W	
0x1CF	LUT51_MATCH	[7:0]	MATCH_LOAD_51						0x00		R/W	
0x1D0	LUT52_SW	[7:0]	SW_SET_52	RESERVED						SW_52	0x00	R/W
0x1D1	LUT52_FC	[7:0]	FC_LOAD_52						0x00		R/W	
0x1D2	LUT52_BW	[7:0]	BW_LOAD_52						0x00		R/W	
0x1D3	LUT52_MATCH	[7:0]	MATCH_LOAD_52						0x00		R/W	
0x1D4	LUT53_SW	[7:0]	SW_SET_53	RESERVED						SW_53	0x00	R/W
0x1D5	LUT53_FC	[7:0]	FC_LOAD_53						0x00		R/W	
0x1D6	LUT53_BW	[7:0]	BW_LOAD_53						0x00		R/W	
0x1D7	LUT53_MATCH	[7:0]	MATCH_LOAD_53						0x00		R/W	
0x1D8	LUT54_SW	[7:0]	SW_SET_54	RESERVED						SW_54	0x00	R/W
0x1D9	LUT54_FC	[7:0]	FC_LOAD_54						0x00		R/W	
0x1DA	LUT54_BW	[7:0]	BW_LOAD_54						0x00		R/W	
0x1DB	LUT54_MATCH	[7:0]	MATCH_LOAD_54						0x00		R/W	
0x1DC	LUT55_SW	[7:0]	SW_SET_55	RESERVED						SW_55	0x00	R/W
0x1DD	LUT55_FC	[7:0]	FC_LOAD_55						0x00		R/W	
0x1DE	LUT55_BW	[7:0]	BW_LOAD_55						0x00		R/W	
0x1DF	LUT55_MATCH	[7:0]	MATCH_LOAD_55						0x00		R/W	
0x1E0	LUT56_SW	[7:0]	SW_SET_56	RESERVED						SW_56	0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x1E1	LUT56_FC	[7:0]									0x00	R/W
0x1E2	LUT56_BW	[7:0]									0x00	R/W
0x1E3	LUT56_MATCH	[7:0]									0x00	R/W
0x1E4	LUT57_SW	[7:0]	SW_SET_5 7			RESERVED				SW_57	0x00	R/W
0x1E5	LUT57_FC	[7:0]									0x00	R/W
0x1E6	LUT57_BW	[7:0]									0x00	R/W
0x1E7	LUT57_MATCH	[7:0]									0x00	R/W
0x1E8	LUT58_SW	[7:0]	SW_SET_5 8			RESERVED				SW_58	0x00	R/W
0x1E9	LUT58_FC	[7:0]									0x00	R/W
0x1EA	LUT58_BW	[7:0]									0x00	R/W
0x1EB	LUT58_MATCH	[7:0]									0x00	R/W
0x1EC	LUT59_SW	[7:0]	SW_SET_5 9			RESERVED				SW_59	0x00	R/W
0x1ED	LUT59_FC	[7:0]									0x00	R/W
0x1EE	LUT59_BW	[7:0]									0x00	R/W
0x1EF	LUT59_MATCH	[7:0]									0x00	R/W
0x1F0	LUT60_SW	[7:0]	SW_SET_6 0			RESERVED				SW_60	0x00	R/W
0x1F1	LUT60_FC	[7:0]									0x00	R/W
0x1F2	LUT60_BW	[7:0]									0x00	R/W
0x1F3	LUT60_MATCH	[7:0]									0x00	R/W
0x1F4	LUT61_SW	[7:0]	SW_SET_6 1			RESERVED				SW_61	0x00	R/W
0x1F5	LUT61_FC	[7:0]									0x00	R/W
0x1F6	LUT61_BW	[7:0]									0x00	R/W
0x1F7	LUT61_MATCH	[7:0]									0x00	R/W
0x1F8	LUT62_SW	[7:0]	SW_SET_6 2			RESERVED				SW_62	0x00	R/W
0x1F9	LUT62_FC	[7:0]									0x00	R/W
0x1FA	LUT62_BW	[7:0]									0x00	R/W
0x1FB	LUT62_MATCH	[7:0]									0x00	R/W
0x1FC	LUT63_SW	[7:0]	SW_SET_6 3			RESERVED				SW_63	0x00	R/W
0x1FD	LUT63_FC	[7:0]									0x00	R/W
0x1FE	LUT63_BW	[7:0]									0x00	R/W
0x1FF	LUT63_MATCH	[7:0]									0x00	R/W
0x200	LUT64_SW	[7:0]	SW_SET_6 4			RESERVED				SW_64	0x00	R/W
0x201	LUT64_FC	[7:0]									0x00	R/W
0x202	LUT64_BW	[7:0]									0x00	R/W
0x203	LUT64_MATCH	[7:0]									0x00	R/W
0x204	LUT65_SW	[7:0]	SW_SET_6 5			RESERVED				SW_65	0x00	R/W
0x205	LUT65_FC	[7:0]									0x00	R/W
0x206	LUT65_BW	[7:0]									0x00	R/W
0x207	LUT65_MATCH	[7:0]									0x00	R/W
0x208	LUT66_SW	[7:0]	SW_SET_6 6			RESERVED				SW_66	0x00	R/W
0x209	LUT66_FC	[7:0]									0x00	R/W
0x20A	LUT66_BW	[7:0]									0x00	R/W
0x20B	LUT66_MATCH	[7:0]									0x00	R/W
0x20C	LUT67_SW	[7:0]	SW_SET_6 7			RESERVED				SW_67	0x00	R/W
0x20D	LUT67_FC	[7:0]									0x00	R/W
0x20E	LUT67_BW	[7:0]									0x00	R/W
0x20F	LUT67_MATCH	[7:0]									0x00	R/W
0x210	LUT68_SW	[7:0]	SW_SET_6 8			RESERVED				SW_68	0x00	R/W
0x211	LUT68_FC	[7:0]									0x00	R/W
0x212	LUT68_BW	[7:0]									0x00	R/W
0x213	LUT68_MATCH	[7:0]									0x00	R/W
0x214	LUT69_SW	[7:0]	SW_SET_6 9			RESERVED				SW_69	0x00	R/W
0x215	LUT69_FC	[7:0]									0x00	R/W
0x216	LUT69_BW	[7:0]									0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x217	LUT69_MATCH	[7:0]					MATCH_LOAD_69				0x00	R/W
0x218	LUT70_SW	[7:0]	SW_SET_70			RESERVED			SW_70		0x00	R/W
0x219	LUT70_FC	[7:0]				FC_LOAD_70					0x00	R/W
0x21A	LUT70_BW	[7:0]				BW_LOAD_70					0x00	R/W
0x21B	LUT70_MATCH	[7:0]				MATCH_LOAD_70					0x00	R/W
0x21C	LUT71_SW	[7:0]	SW_SET_71			RESERVED			SW_71		0x00	R/W
0x21D	LUT71_FC	[7:0]				FC_LOAD_71					0x00	R/W
0x21E	LUT71_BW	[7:0]				BW_LOAD_71					0x00	R/W
0x21F	LUT71_MATCH	[7:0]				MATCH_LOAD_71					0x00	R/W
0x220	LUT72_SW	[7:0]	SW_SET_72			RESERVED			SW_72		0x00	R/W
0x221	LUT72_FC	[7:0]				FC_LOAD_72					0x00	R/W
0x222	LUT72_BW	[7:0]				BW_LOAD_72					0x00	R/W
0x223	LUT72_MATCH	[7:0]				MATCH_LOAD_72					0x00	R/W
0x224	LUT73_SW	[7:0]	SW_SET_73			RESERVED			SW_73		0x00	R/W
0x225	LUT73_FC	[7:0]				FC_LOAD_73					0x00	R/W
0x226	LUT73_BW	[7:0]				BW_LOAD_73					0x00	R/W
0x227	LUT73_MATCH	[7:0]				MATCH_LOAD_73					0x00	R/W
0x228	LUT74_SW	[7:0]	SW_SET_74			RESERVED			SW_74		0x00	R/W
0x229	LUT74_FC	[7:0]				FC_LOAD_74					0x00	R/W
0x22A	LUT74_BW	[7:0]				BW_LOAD_74					0x00	R/W
0x22B	LUT74_MATCH	[7:0]				MATCH_LOAD_74					0x00	R/W
0x22C	LUT75_SW	[7:0]	SW_SET_75			RESERVED			SW_75		0x00	R/W
0x22D	LUT75_FC	[7:0]				FC_LOAD_75					0x00	R/W
0x22E	LUT75_BW	[7:0]				BW_LOAD_75					0x00	R/W
0x22F	LUT75_MATCH	[7:0]				MATCH_LOAD_75					0x00	R/W
0x230	LUT76_SW	[7:0]	SW_SET_76			RESERVED			SW_76		0x00	R/W
0x231	LUT76_FC	[7:0]				FC_LOAD_76					0x00	R/W
0x232	LUT76_BW	[7:0]				BW_LOAD_76					0x00	R/W
0x233	LUT76_MATCH	[7:0]				MATCH_LOAD_76					0x00	R/W
0x234	LUT77_SW	[7:0]	SW_SET_77			RESERVED			SW_77		0x00	R/W
0x235	LUT77_FC	[7:0]				FC_LOAD_77					0x00	R/W
0x236	LUT77_BW	[7:0]				BW_LOAD_77					0x00	R/W
0x237	LUT77_MATCH	[7:0]				MATCH_LOAD_77					0x00	R/W
0x238	LUT78_SW	[7:0]	SW_SET_78			RESERVED			SW_78		0x00	R/W
0x239	LUT78_FC	[7:0]				FC_LOAD_78					0x00	R/W
0x23A	LUT78_BW	[7:0]				BW_LOAD_78					0x00	R/W
0x23B	LUT78_MATCH	[7:0]				MATCH_LOAD_78					0x00	R/W
0x23C	LUT79_SW	[7:0]	SW_SET_79			RESERVED			SW_79		0x00	R/W
0x23D	LUT79_FC	[7:0]				FC_LOAD_79					0x00	R/W
0x23E	LUT79_BW	[7:0]				BW_LOAD_79					0x00	R/W
0x23F	LUT79_MATCH	[7:0]				MATCH_LOAD_79					0x00	R/W
0x240	LUT80_SW	[7:0]	SW_SET_80			RESERVED			SW_80		0x00	R/W
0x241	LUT80_FC	[7:0]				FC_LOAD_80					0x00	R/W
0x242	LUT80_BW	[7:0]				BW_LOAD_80					0x00	R/W
0x243	LUT80_MATCH	[7:0]				MATCH_LOAD_80					0x00	R/W
0x244	LUT81_SW	[7:0]	SW_SET_81			RESERVED			SW_81		0x00	R/W
0x245	LUT81_FC	[7:0]				FC_LOAD_81					0x00	R/W
0x246	LUT81_BW	[7:0]				BW_LOAD_81					0x00	R/W
0x247	LUT81_MATCH	[7:0]				MATCH_LOAD_81					0x00	R/W
0x248	LUT82_SW	[7:0]	SW_SET_82			RESERVED			SW_82		0x00	R/W
0x249	LUT82_FC	[7:0]				FC_LOAD_82					0x00	R/W
0x24A	LUT82_BW	[7:0]				BW_LOAD_82					0x00	R/W
0x24B	LUT82_MATCH	[7:0]				MATCH_LOAD_82					0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x24C	LUT83_SW	[7:0]	SW_SET_8 3				RESERVED			SW_83	0x00	R/W
0x24D	LUT83_FC	[7:0]					FC_LOAD_83				0x00	R/W
0x24E	LUT83_BW	[7:0]					BW_LOAD_83				0x00	R/W
0x24F	LUT83_MATCH	[7:0]					MATCH_LOAD_83				0x00	R/W
0x250	LUT84_SW	[7:0]	SW_SET_8 4				RESERVED			SW_84	0x00	R/W
0x251	LUT84_FC	[7:0]					FC_LOAD_84				0x00	R/W
0x252	LUT84_BW	[7:0]					BW_LOAD_84				0x00	R/W
0x253	LUT84_MATCH	[7:0]					MATCH_LOAD_84				0x00	R/W
0x254	LUT85_SW	[7:0]	SW_SET_8 5				RESERVED			SW_85	0x00	R/W
0x255	LUT85_FC	[7:0]					FC_LOAD_85				0x00	R/W
0x256	LUT85_BW	[7:0]					BW_LOAD_85				0x00	R/W
0x257	LUT85_MATCH	[7:0]					MATCH_LOAD_85				0x00	R/W
0x258	LUT86_SW	[7:0]	SW_SET_8 6				RESERVED			SW_86	0x00	R/W
0x259	LUT86_FC	[7:0]					FC_LOAD_86				0x00	R/W
0x25A	LUT86_BW	[7:0]					BW_LOAD_86				0x00	R/W
0x25B	LUT86_MATCH	[7:0]					MATCH_LOAD_86				0x00	R/W
0x25C	LUT87_SW	[7:0]	SW_SET_8 7				RESERVED			SW_87	0x00	R/W
0x25D	LUT87_FC	[7:0]					FC_LOAD_87				0x00	R/W
0x25E	LUT87_BW	[7:0]					BW_LOAD_87				0x00	R/W
0x25F	LUT87_MATCH	[7:0]					MATCH_LOAD_87				0x00	R/W
0x260	LUT88_SW	[7:0]	SW_SET_8 8				RESERVED			SW_88	0x00	R/W
0x261	LUT88_FC	[7:0]					FC_LOAD_88				0x00	R/W
0x262	LUT88_BW	[7:0]					BW_LOAD_88				0x00	R/W
0x263	LUT88_MATCH	[7:0]					MATCH_LOAD_88				0x00	R/W
0x264	LUT89_SW	[7:0]	SW_SET_8 9				RESERVED			SW_89	0x00	R/W
0x265	LUT89_FC	[7:0]					FC_LOAD_89				0x00	R/W
0x266	LUT89_BW	[7:0]					BW_LOAD_89				0x00	R/W
0x267	LUT89_MATCH	[7:0]					MATCH_LOAD_89				0x00	R/W
0x268	LUT90_SW	[7:0]	SW_SET_9 0				RESERVED			SW_90	0x00	R/W
0x269	LUT90_FC	[7:0]					FC_LOAD_90				0x00	R/W
0x26A	LUT90_BW	[7:0]					BW_LOAD_90				0x00	R/W
0x26B	LUT90_MATCH	[7:0]					MATCH_LOAD_90				0x00	R/W
0x26C	LUT91_SW	[7:0]	SW_SET_9 1				RESERVED			SW_91	0x00	R/W
0x26D	LUT91_FC	[7:0]					FC_LOAD_91				0x00	R/W
0x26E	LUT91_BW	[7:0]					BW_LOAD_91				0x00	R/W
0x26F	LUT91_MATCH	[7:0]					MATCH_LOAD_91				0x00	R/W
0x270	LUT92_SW	[7:0]	SW_SET_9 2				RESERVED			SW_92	0x00	R/W
0x271	LUT92_FC	[7:0]					FC_LOAD_92				0x00	R/W
0x272	LUT92_BW	[7:0]					BW_LOAD_92				0x00	R/W
0x273	LUT92_MATCH	[7:0]					MATCH_LOAD_92				0x00	R/W
0x274	LUT93_SW	[7:0]	SW_SET_9 3				RESERVED			SW_93	0x00	R/W
0x275	LUT93_FC	[7:0]					FC_LOAD_93				0x00	R/W
0x276	LUT93_BW	[7:0]					BW_LOAD_93				0x00	R/W
0x277	LUT93_MATCH	[7:0]					MATCH_LOAD_93				0x00	R/W
0x278	LUT94_SW	[7:0]	SW_SET_9 4				RESERVED			SW_94	0x00	R/W
0x279	LUT94_FC	[7:0]					FC_LOAD_94				0x00	R/W
0x27A	LUT94_BW	[7:0]					BW_LOAD_94				0x00	R/W
0x27B	LUT94_MATCH	[7:0]					MATCH_LOAD_94				0x00	R/W
0x27C	LUT95_SW	[7:0]	SW_SET_9 5				RESERVED			SW_95	0x00	R/W
0x27D	LUT95_FC	[7:0]					FC_LOAD_95				0x00	R/W
0x27E	LUT95_BW	[7:0]					BW_LOAD_95				0x00	R/W
0x27F	LUT95_MATCH	[7:0]					MATCH_LOAD_95				0x00	R/W
0x280	LUT96_SW	[7:0]	SW_SET_9 6				RESERVED			SW_96	0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x281	LUT96_FC	[7:0]									0x00	R/W
0x282	LUT96_BW	[7:0]									0x00	R/W
0x283	LUT96_MATCH	[7:0]									0x00	R/W
0x284	LUT97_SW	[7:0]	SW_SET_9 7			RESERVED			SW_97		0x00	R/W
0x285	LUT97_FC	[7:0]									0x00	R/W
0x286	LUT97_BW	[7:0]									0x00	R/W
0x287	LUT97_MATCH	[7:0]									0x00	R/W
0x288	LUT98_SW	[7:0]	SW_SET_9 8			RESERVED			SW_98		0x00	R/W
0x289	LUT98_FC	[7:0]									0x00	R/W
0x28A	LUT98_BW	[7:0]									0x00	R/W
0x28B	LUT98_MATCH	[7:0]									0x00	R/W
0x28C	LUT99_SW	[7:0]	SW_SET_9 9			RESERVED			SW_99		0x00	R/W
0x28D	LUT99_FC	[7:0]									0x00	R/W
0x28E	LUT99_BW	[7:0]									0x00	R/W
0x28F	LUT99_MATCH	[7:0]									0x00	R/W
0x290	LUT100_SW	[7:0]	SW_SET_1 00			RESERVED			SW_100		0x00	R/W
0x291	LUT100_FC	[7:0]									0x00	R/W
0x292	LUT100_BW	[7:0]									0x00	R/W
0x293	LUT100_MATCH	[7:0]									0x00	R/W
0x294	LUT101_SW	[7:0]	SW_SET_1 01			RESERVED			SW_101		0x00	R/W
0x295	LUT101_FC	[7:0]									0x00	R/W
0x296	LUT101_BW	[7:0]									0x00	R/W
0x297	LUT101_MATCH	[7:0]									0x00	R/W
0x298	LUT102_SW	[7:0]	SW_SET_1 02			RESERVED			SW_102		0x00	R/W
0x299	LUT102_FC	[7:0]									0x00	R/W
0x29A	LUT102_BW	[7:0]									0x00	R/W
0x29B	LUT102_MATCH	[7:0]									0x00	R/W
0x29C	LUT103_SW	[7:0]	SW_SET_1 03			RESERVED			SW_103		0x00	R/W
0x29D	LUT103_FC	[7:0]									0x00	R/W
0x29E	LUT103_BW	[7:0]									0x00	R/W
0x29F	LUT103_MATCH	[7:0]									0x00	R/W
0x2A0	LUT104_SW	[7:0]	SW_SET_1 04			RESERVED			SW_104		0x00	R/W
0x2A1	LUT104_FC	[7:0]									0x00	R/W
0x2A2	LUT104_BW	[7:0]									0x00	R/W
0x2A3	LUT104_MATCH	[7:0]									0x00	R/W
0x2A4	LUT105_SW	[7:0]	SW_SET_1 05			RESERVED			SW_105		0x00	R/W
0x2A5	LUT105_FC	[7:0]									0x00	R/W
0x2A6	LUT105_BW	[7:0]									0x00	R/W
0x2A7	LUT105_MATCH	[7:0]									0x00	R/W
0x2A8	LUT106_SW	[7:0]	SW_SET_1 06			RESERVED			SW_106		0x00	R/W
0x2A9	LUT106_FC	[7:0]									0x00	R/W
0x2AA	LUT106_BW	[7:0]									0x00	R/W
0x2AB	LUT106_MATCH	[7:0]									0x00	R/W
0x2AC	LUT107_SW	[7:0]	SW_SET_1 07			RESERVED			SW_107		0x00	R/W
0x2AD	LUT107_FC	[7:0]									0x00	R/W
0x2AE	LUT107_BW	[7:0]									0x00	R/W
0x2AF	LUT107_MATCH	[7:0]									0x00	R/W
0x2B0	LUT108_SW	[7:0]	SW_SET_1 08			RESERVED			SW_108		0x00	R/W
0x2B1	LUT108_FC	[7:0]									0x00	R/W
0x2B2	LUT108_BW	[7:0]									0x00	R/W
0x2B3	LUT108_MATCH	[7:0]									0x00	R/W
0x2B4	LUT109_SW	[7:0]	SW_SET_1 09			RESERVED			SW_109		0x00	R/W
0x2B5	LUT109_FC	[7:0]									0x00	R/W
0x2B6	LUT109_BW	[7:0]									0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x2B7	LUT109_MATCH	[7:0]					MATCH_LOAD_109				0x00	R/W
0x2B8	LUT110_SW	[7:0]	SW_SET_10			RESERVED			SW_110		0x00	R/W
0x2B9	LUT110_FC	[7:0]					FC_LOAD_110				0x00	R/W
0x2BA	LUT110_BW	[7:0]					BW_LOAD_110				0x00	R/W
0x2BB	LUT110_MATCH	[7:0]					MATCH_LOAD_110				0x00	R/W
0x2BC	LUT111_SW	[7:0]	SW_SET_111			RESERVED			SW_111		0x00	R/W
0x2BD	LUT111_FC	[7:0]					FC_LOAD_111				0x00	R/W
0x2BE	LUT111_BW	[7:0]					BW_LOAD_111				0x00	R/W
0x2BF	LUT111_MATCH	[7:0]					MATCH_LOAD_111				0x00	R/W
0x2C0	LUT112_SW	[7:0]	SW_SET_112			RESERVED			SW_112		0x00	R/W
0x2C1	LUT112_FC	[7:0]					FC_LOAD_112				0x00	R/W
0x2C2	LUT112_BW	[7:0]					BW_LOAD_112				0x00	R/W
0x2C3	LUT112_MATCH	[7:0]					MATCH_LOAD_112				0x00	R/W
0x2C4	LUT113_SW	[7:0]	SW_SET_113			RESERVED			SW_113		0x00	R/W
0x2C5	LUT113_FC	[7:0]					FC_LOAD_113				0x00	R/W
0x2C6	LUT113_BW	[7:0]					BW_LOAD_113				0x00	R/W
0x2C7	LUT113_MATCH	[7:0]					MATCH_LOAD_113				0x00	R/W
0x2C8	LUT114_SW	[7:0]	SW_SET_114			RESERVED			SW_114		0x00	R/W
0x2C9	LUT114_FC	[7:0]					FC_LOAD_114				0x00	R/W
0x2CA	LUT114_BW	[7:0]					BW_LOAD_114				0x00	R/W
0x2CB	LUT114_MATCH	[7:0]					MATCH_LOAD_114				0x00	R/W
0x2CC	LUT115_SW	[7:0]	SW_SET_115			RESERVED			SW_115		0x00	R/W
0x2CD	LUT115_FC	[7:0]					FC_LOAD_115				0x00	R/W
0x2CE	LUT115_BW	[7:0]					BW_LOAD_115				0x00	R/W
0x2CF	LUT115_MATCH	[7:0]					MATCH_LOAD_115				0x00	R/W
0x2D0	LUT116_SW	[7:0]	SW_SET_116			RESERVED			SW_116		0x00	R/W
0x2D1	LUT116_FC	[7:0]					FC_LOAD_116				0x00	R/W
0x2D2	LUT116_BW	[7:0]					BW_LOAD_116				0x00	R/W
0x2D3	LUT116_MATCH	[7:0]					MATCH_LOAD_116				0x00	R/W
0x2D4	LUT117_SW	[7:0]	SW_SET_117			RESERVED			SW_117		0x00	R/W
0x2D5	LUT117_FC	[7:0]					FC_LOAD_117				0x00	R/W
0x2D6	LUT117_BW	[7:0]					BW_LOAD_117				0x00	R/W
0x2D7	LUT117_MATCH	[7:0]					MATCH_LOAD_117				0x00	R/W
0x2D8	LUT118_SW	[7:0]	SW_SET_118			RESERVED			SW_118		0x00	R/W
0x2D9	LUT118_FC	[7:0]					FC_LOAD_118				0x00	R/W
0x2DA	LUT118_BW	[7:0]					BW_LOAD_118				0x00	R/W
0x2DB	LUT118_MATCH	[7:0]					MATCH_LOAD_118				0x00	R/W
0x2DC	LUT119_SW	[7:0]	SW_SET_119			RESERVED			SW_119		0x00	R/W
0x2DD	LUT119_FC	[7:0]					FC_LOAD_119				0x00	R/W
0x2DE	LUT119_BW	[7:0]					BW_LOAD_119				0x00	R/W
0x2DF	LUT119_MATCH	[7:0]					MATCH_LOAD_119				0x00	R/W
0x2E0	LUT120_SW	[7:0]	SW_SET_120			RESERVED			SW_120		0x00	R/W
0x2E1	LUT120_FC	[7:0]					FC_LOAD_120				0x00	R/W
0x2E2	LUT120_BW	[7:0]					BW_LOAD_120				0x00	R/W
0x2E3	LUT120_MATCH	[7:0]					MATCH_LOAD_120				0x00	R/W
0x2E4	LUT121_SW	[7:0]	SW_SET_121			RESERVED			SW_121		0x00	R/W
0x2E5	LUT121_FC	[7:0]					FC_LOAD_121				0x00	R/W
0x2E6	LUT121_BW	[7:0]					BW_LOAD_121				0x00	R/W
0x2E7	LUT121_MATCH	[7:0]					MATCH_LOAD_121				0x00	R/W
0x2E8	LUT122_SW	[7:0]	SW_SET_122			RESERVED			SW_122		0x00	R/W
0x2E9	LUT122_FC	[7:0]					FC_LOAD_122				0x00	R/W
0x2EA	LUT122_BW	[7:0]					BW_LOAD_122				0x00	R/W
0x2EB	LUT122_MATCH	[7:0]					MATCH_LOAD_122				0x00	R/W

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x2EC	LUT123_SW	[7:0]	SW_SET_1 23	RESERVED					SW_123	0x00	R/W	
0x2ED	LUT123_FC	[7:0]	FC_LOAD_123					0x00			R/W	
0x2EE	LUT123_BW	[7:0]	BW_LOAD_123					0x00			R/W	
0x2EF	LUT123_MATCH	[7:0]	MATCH_LOAD_123					0x00			R/W	
0x2F0	LUT124_SW	[7:0]	SW_SET_1 24	RESERVED					SW_124	0x00	R/W	
0x2F1	LUT124_FC	[7:0]	FC_LOAD_124					0x00			R/W	
0x2F2	LUT124_BW	[7:0]	BW_LOAD_124					0x00			R/W	
0x2F3	LUT124_MATCH	[7:0]	MATCH_LOAD_124					0x00			R/W	
0x2F4	LUT125_SW	[7:0]	SW_SET_1 25	RESERVED					SW_125	0x00	R/W	
0x2F5	LUT125_FC	[7:0]	FC_LOAD_125					0x00			R/W	
0x2F6	LUT125_BW	[7:0]	BW_LOAD_125					0x00			R/W	
0x2F7	LUT125_MATCH	[7:0]	MATCH_LOAD_125					0x00			R/W	
0x2F8	LUT126_SW	[7:0]	SW_SET_1 26	RESERVED					SW_126	0x00	R/W	
0x2F9	LUT126_FC	[7:0]	FC_LOAD_126					0x00			R/W	
0x2FA	LUT126_BW	[7:0]	BW_LOAD_126					0x00			R/W	
0x2FB	LUT126_MATCH	[7:0]	MATCH_LOAD_126					0x00			R/W	
0x2FC	LUT127_SW	[7:0]	SW_SET_1 27	RESERVED					SW_127	0x00	R/W	
0x2FD	LUT127_FC	[7:0]	FC_LOAD_127					0x00			R/W	
0x2FE	LUT127_BW	[7:0]	BW_LOAD_127					0x00			R/W	
0x2FF	LUT127_MATCH	[7:0]	MATCH_LOAD_127					0x00			R/W	
0x300	BAND1_INTERP_FC_Y0	[7:0]	BAND1_INTERP_FC_Y0					0xC2			R/W	
0x301	BAND1_INTERP_FC_Y1	[7:0]	BAND1_INTERP_FC_Y1					0x96			R/W	
0x302	BAND1_INTERP_FC_Y2	[7:0]	BAND1_INTERP_FC_Y2					0x77			R/W	
0x303	BAND1_INTERP_FC_Y3	[7:0]	BAND1_INTERP_FC_Y3					0x50			R/W	
0x304	BAND1_INTERP_FC_Y4	[7:0]	BAND1_INTERP_FC_Y4					0x39			R/W	
0x305	BAND1_INTERP_FC_Y5	[7:0]	BAND1_INTERP_FC_Y5					0x2A			R/W	
0x306	BAND1_INTERP_FC_Y6	[7:0]	BAND1_INTERP_FC_Y6					0x20			R/W	
0x307	BAND1_INTERP_FC_Y7	[7:0]	BAND1_INTERP_FC_Y7					0x18			R/W	
0x308	BAND1_INTERP_FC_Y8	[7:0]	BAND1_INTERP_FC_Y8					0x13			R/W	
0x309	BAND1_INTERP_FC_Y9	[7:0]	BAND1_INTERP_FC_Y9					0x0F			R/W	
0x30A	BAND1_INTERP_BW_V0	[7:0]	BAND1_INTERP_BW_V0					0x02			R/W	
0x30B	BAND1_INTERP_BW_V1	[7:0]	BAND1_INTERP_BW_V1					0x16			R/W	
0x30C	BAND1_INTERP_BW_V2	[7:0]	BAND1_INTERP_BW_V2					0x8B			R/W	
0x30D	BAND1_INTERP_MATCH_T0	[7:0]	BAND1_INTERP_MATCH_T0					0x03			R/W	
0x30E	BAND1_INTERP_MATCH_T1	[7:0]	BAND1_INTERP_MATCH_T1					0x1D			R/W	
0x30F	BAND1_INTERP_MATCH_T2	[7:0]	BAND1_INTERP_MATCH_T2					0x95			R/W	
0x310	BAND2_INTERP_FC_Y0	[7:0]	BAND2_INTERP_FC_Y0					0xEB			R/W	
0x311	BAND2_INTERP_FC_Y1	[7:0]	BAND2_INTERP_FC_Y1					0xBF			R/W	
0x312	BAND2_INTERP_FC_Y2	[7:0]	BAND2_INTERP_FC_Y2					0x9E			R/W	
0x313	BAND2_INTERP_FC_Y3	[7:0]	BAND2_INTERP_FC_Y3					0x6E			R/W	
0x314	BAND2_INTERP_FC_Y4	[7:0]	BAND2_INTERP_FC_Y4					0x4F			R/W	
0x315	BAND2_INTERP_FC_Y5	[7:0]	BAND2_INTERP_FC_Y5					0x3A			R/W	
0x316	BAND2_INTERP_FC_Y6	[7:0]	BAND2_INTERP_FC_Y6					0x2B			R/W	
0x317	BAND2_INTERP_FC_Y7	[7:0]	BAND2_INTERP_FC_Y7					0x20			R/W	
0x318	BAND2_INTERP_FC_Y8	[7:0]	BAND2_INTERP_FC_Y8					0x17			R/W	
0x319	BAND2_INTERP_FC_Y9	[7:0]	BAND2_INTERP_FC_Y9					0x11			R/W	
0x31A	BAND2_INTERP_BW_V0	[7:0]	BAND2_INTERP_BW_V0					0x06			R/W	
0x31B	BAND2_INTERP_BW_V1	[7:0]	BAND2_INTERP_BW_V1					0x13			R/W	
0x31C	BAND2_INTERP_BW_V2	[7:0]	BAND2_INTERP_BW_V2					0x5E			R/W	
0x31D	BAND2_INTERP_MATCH_T0	[7:0]	BAND2_INTERP_MATCH_T0					0x08			R/W	
0x31E	BAND2_INTERP_MATCH_T1	[7:0]	BAND2_INTERP_MATCH_T1					0x21			R/W	
0x31F	BAND2_INTERP_MATCH_T2	[7:0]	BAND2_INTERP_MATCH_T2					0x8C			R/W	
0x320	BAND3_INTERP_FC_Y0	[7:0]	BAND3_INTERP_FC_Y0					0xB9			R/W	
0x321	BAND3_INTERP_FC_Y1	[7:0]	BAND3_INTERP_FC_Y1					0x97			R/W	
0x322	BAND3_INTERP_FC_Y2	[7:0]	BAND3_INTERP_FC_Y2					0x7C			R/W	
0x323	BAND3_INTERP_FC_Y3	[7:0]	BAND3_INTERP_FC_Y3					0x55			R/W	
0x324	BAND3_INTERP_FC_Y4	[7:0]	BAND3_INTERP_FC_Y4					0x3B			R/W	
0x325	BAND3_INTERP_FC_Y5	[7:0]	BAND3_INTERP_FC_Y5					0x28			R/W	
0x326	BAND3_INTERP_FC_Y6	[7:0]	BAND3_INTERP_FC_Y6					0x1B			R/W	
0x327	BAND3_INTERP_FC_Y7	[7:0]	BAND3_INTERP_FC_Y7					0x11			R/W	

Reg	Name	Bits	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Reset	RW
0x328	BAND3_INTERP_FC_Y8	[7:0]									0x09	R/W
0x329	BAND3_INTERP_FC_Y9	[7:0]									0x03	R/W
0x32A	BAND3_INTERP_BW_V0	[7:0]									0x10	R/W
0x32B	BAND3_INTERP_BW_V1	[7:0]									0x1F	R/W
0x32C	BAND3_INTERP_BW_V2	[7:0]									0x85	R/W
0x32D	BAND3_INTERP_MATCH_T0	[7:0]									0x13	R/W
0x32E	BAND3_INTERP_MATCH_T1	[7:0]									0x2A	R/W
0x32F	BAND3_INTERP_MATCH_T2	[7:0]									0xA2	R/W

REGISTER DETAILS

Note that the LUT1_SW to LUT127_MATCH bit field functionality (Register 0x104 to Register 0x2FF) is identical to LUT0_SW to LUT0_MATCH bit field functionality (Register 0x100 to Register 0x103). See Register Summary table for register address information.

Address: 0x000, Reset: 0x00, Name: ADI_SPI_CONFIG_A

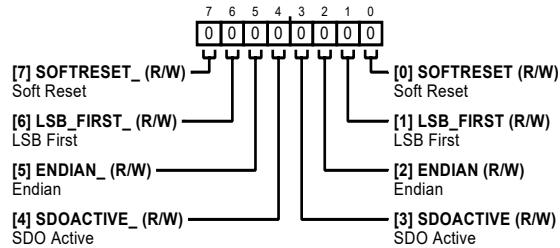


Table 9. Bit Descriptions for ADI_SPI_CONFIG_A

Bits	Bit Name	Description	Reset	Access
7	SOFTRESET_	Soft Reset. 0: Reset Asserted. 1: Reset not Asserted.	0x0	R/W
6	LSB_FIRST_	LSB First. 0: LSB First. 1: MSB First.	0x0	R/W
5	ENDIAN_	Endian. 0: Little Endian. 1: Big Endian.	0x0	R/W
4	SDOACTIVE_	SDO Active. 0: SDO Inactive. 1: SDO Active.	0x0	R/W
3	SDOACTIVE	SDO Active. 0: SDO Inactive. 1: SDO Active.	0x0	R/W
2	ENDIAN	Endian. 0: Little Endian. 1: Big Endian.	0x0	R/W
1	LSB_FIRST	LSB First. 0: LSB First. 1: MSB First.	0x0	R/W
0	SOFTRESET	Soft Reset. 0: Reset Asserted. 1: Reset Not Asserted.	0x0	R/W

Address: 0x001, Reset: 0x00, Name: ADI_SPI_CONFIG_B

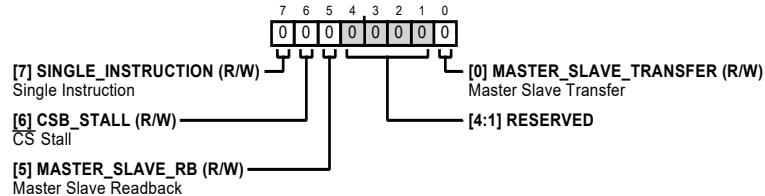


Table 10. Bit Descriptions for ADI_SPI_CONFIG_B

Bits	Bit Name	Description	Reset	Access
7	SINGLE_INSTRUCTION	Single Instruction. 0: Enable Streaming. 1: Disable Streaming Regardless of CSB.	0x0	R/W
6	CSB_STALL	CS Stall.	0x0	R/W
5	MASTER_SLAVE_RB	Master Slave Readback.	0x0	R/W
[4:1]	RESERVED	Reserved.	0x0	R
0	MASTER_SLAVE_TRANSFER	Master Slave Transfer.	0x0	R/W

Address: 0x003, Reset: 0x01, Name: CHIPTYPE

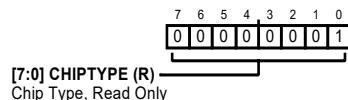


Table 11. Bit Descriptions for CHIPTYPE

Bits	Bit Name	Description	Reset	Access
[7:0]	CHIPTYPE	Chip Type, Read Only.	0x1	R

Address: 0x004, Reset: 0x52, Name: PRODUCT_ID_L

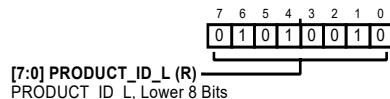


Table 12. Bit Descriptions for PRODUCT_ID_L

Bits	Bit Name	Description	Reset	Access
[7:0]	PRODUCT_ID_L	PRODUCT_ID_L, Lower 8 Bits.	0x52	R

Address: 0x005, Reset: 0x80, Name: PRODUCT_ID_H

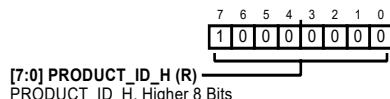


Table 13. Bit Descriptions for PRODUCT_ID_H

Bits	Bit Name	Description	Reset	Access
[7:0]	PRODUCT_ID_H	PRODUCT_ID_H, Higher 8 Bits.	0x80	R

Address: 0x011, Reset: 0x7F, Name: FAST_LATCH_STOP

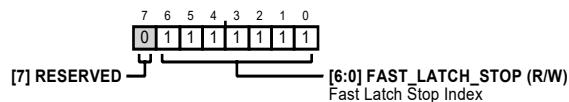


Table 14. Bit Descriptions for FAST_LATCH_STOP

Bits	Bit Name	Description	Reset	Access
7	RESERVED	Reserved.	0x0	R
[6:0]	FAST_LATCH_STOP	Fast Latch Stop Index. Sets the stop index within the fast latch lookup table.	0x7F	R/W

Address: 0x012, Reset: 0x00, Name: FAST_LATCH_START

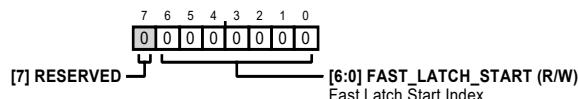


Table 15. Bit Descriptions for FAST_LATCH_START

Bits	Bit Name	Description	Reset	Access
7	RESERVED	Reserved.	0x0	R
[6:0]	FAST_LATCH_START	Fast Latch Start Index. Sets the start index within the fast latch lookup table.	0x0	R/W

Address: 0x013, Reset: 0x00, Name: FAST_LATCH_DIRECTION

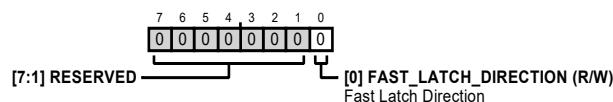


Table 16. Bit Descriptions for FAST_LATCH_DIRECTION

Bits	Bit Name	Description	Reset	Access
[7:1]	RESERVED	Reserved.	0x0	R
0	FAST_LATCH_DIRECTION	Fast Latch Direction. Determines which direction to sequence within the fast latch lookup table. 0: Increment. 1: Decrement.	0x0	R/W

Address: 0x014, Reset: 0x00, Name: FAST_LATCH_STATE

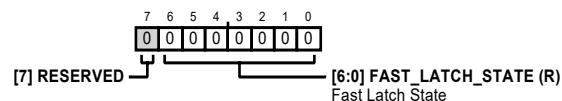


Table 17. Bit Descriptions for FAST_LATCH_STATE

Bits	Bit Name	Description	Reset	Access
7	RESERVED	Reserved.	0x0	R
[6:0]	FAST_LATCH_STATE	Fast Latch State. Reads back the internal state machine pointer.	0x0	R

Address: 0x020, **Reset:** 0x00, **Name:** WR0_SW

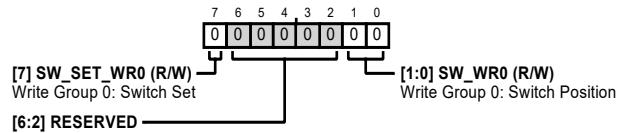


Table 18. Bit Descriptions for WR0_SW

Bits	Bit Name	Description	Reset	Access
7	SW_SET_WR0	Write Group 0: Switch Set.	0x0	R/W
[6:2]	RESERVED	Reserved.	0x0	R
[1:0]	SW_WR0	Write Group 0: Switch Position. 00: Bypass. 01: Band 1. 10: Band 2. 11: Band 3.	0x0	R/W

Address: 0x021, **Reset:** 0x00, **Name:** WR0_FC

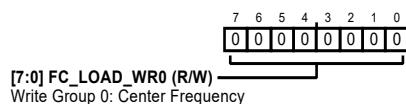


Table 19. Bit Descriptions for WR0_FC

Bits	Bit Name	Description	Reset	Access
[7:0]	FC_LOAD_WR0	Write Group 0: Center Frequency.	0x0	R/W

Address: 0x022, **Reset:** 0x00, **Name:** WR0_BW

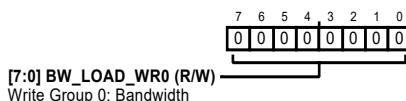


Table 20. Bit Descriptions for WR0_BW

Bits	Bit Name	Description	Reset	Access
[7:0]	BW_LOAD_WR0	Write Group 0: Bandwidth.	0x0	R/W

Address: 0x023, **Reset:** 0x00, **Name:** WR0_MATCH

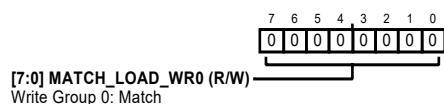


Table 21. Bit Descriptions for WR0_MATCH

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH_LOAD_WR0	Write Group 0: Match.	0x0	R/W

Address: 0x024, Reset: 0x00, Name: WR1_SW

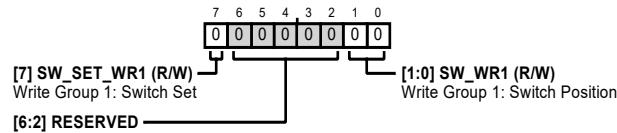


Table 22. Bit Descriptions for WR1_SW

Bits	Bit Name	Description	Reset	Access
7	SW_SET_WR1	Write Group 1: Switch Set.	0x0	R/W
[6:2]	RESERVED	Reserved.	0x0	R
[1:0]	SW_WR1	Write Group 1: Switch Position. 00: Bypass. 01: Band 1. 10: Band 2. 11: Band 3.	0x0	R/W

Address: 0x025, Reset: 0x00, Name: WR1_FC

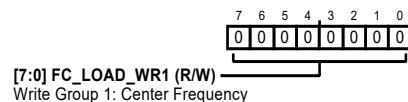


Table 23. Bit Descriptions for WR1_FC

Bits	Bit Name	Description	Reset	Access
[7:0]	FC_LOAD_WR1	Write Group 1: Center Frequency.	0x0	R/W

Address: 0x026, Reset: 0x00, Name: WR1_BW

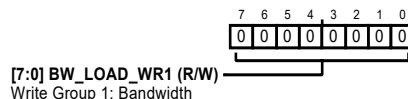


Table 24. Bit Descriptions for WR1_BW

Bits	Bit Name	Description	Reset	Access
[7:0]	BW_LOAD_WR1	Write Group 1: Bandwidth.	0x0	R/W

Address: 0x027, Reset: 0x00, Name: WR1_MATCH



Table 25. Bit Descriptions for WR1_MATCH

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH_LOAD_WR1	Write Group 1: Match.	0x0	R/W

Address: 0x028, Reset: 0x00, Name: WR2_SW

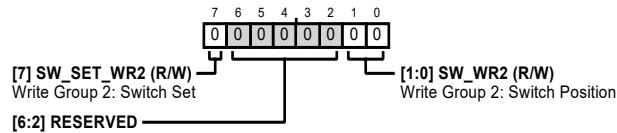


Table 26. Bit Descriptions for WR2_SW

Bits	Bit Name	Description	Reset	Access
7	SW_SET_WR2	Write Group 2: Switch Set.	0x0	R/W
[6:2]	RESERVED	Reserved.	0x0	R
[1:0]	SW_WR2	Write Group 2: Switch Position. 00: Bypass. 01: Band 1. 10: Band 2. 11: Band 3.	0x0	R/W

Address: 0x029, Reset: 0x00, Name: WR2_FC

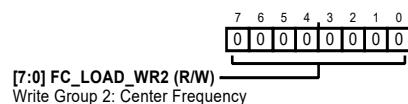


Table 27. Bit Descriptions for WR2_FC

Bits	Bit Name	Description	Reset	Access
[7:0]	FC_LOAD_WR2	Write Group 2: Center Frequency.	0x0	R/W

Address: 0x02A, Reset: 0x00, Name: WR2_BW

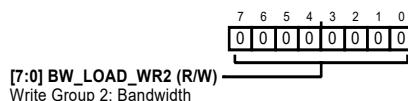


Table 28. Bit Descriptions for WR2_BW

Bits	Bit Name	Description	Reset	Access
[7:0]	BW_LOAD_WR2	Write Group 2: Bandwidth.	0x0	R/W

Address: 0x02B, Reset: 0x00, Name: WR2_MATCH

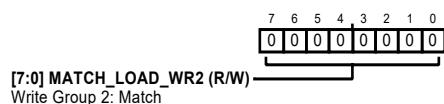


Table 29. Bit Descriptions for WR2_MATCH

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH_LOAD_WR2	Write Group 2: Match.	0x0	R/W

Address: 0x02C, Reset: 0x00, Name: WR3_SW

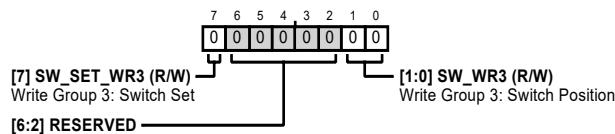


Table 30. Bit Descriptions for WR3_SW

Bits	Bit Name	Description	Reset	Access
7	SW_SET_WR3	Write Group 3: Switch Set.	0x0	R/W
[6:2]	RESERVED	Reserved.	0x0	R
[1:0]	SW_WR3	Write Group 3: Switch Position. 00: Bypass. 01: Band 1. 10: Band 2. 11: Band 3.	0x0	R/W

Address: 0x02D, Reset: 0x00, Name: WR3_FC

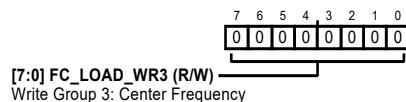


Table 31. Bit Descriptions for WR3_FC

Bits	Bit Name	Description	Reset	Access
[7:0]	FC_LOAD_WR3	Write Group 3: Center Frequency.	0x0	R/W

Address: 0x02E, Reset: 0x00, Name: WR3_BW

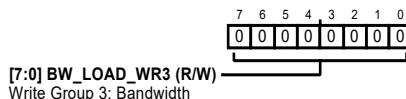


Table 32. Bit Descriptions for WR3_BW

Bits	Bit Name	Description	Reset	Access
[7:0]	BW_LOAD_WR3	Write Group 3: Bandwidth.	0x0	R/W

Address: 0x02F, Reset: 0x00, Name: WR3_MATCH



Table 33. Bit Descriptions for WR3_MATCH

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH_LOAD_WR3	Write Group 3: Match.	0x0	R/W

Address: 0x050, Reset: 0x00, Name: FILTER_CONFIG

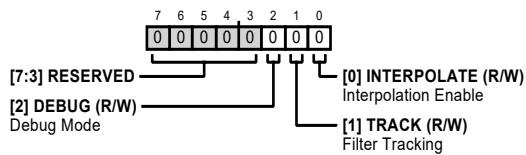


Table 34. Bit Descriptions for FILTER_CONFIG

Bits	Bit Name	Description	Reset	Access
[7:3]	RESERVED	Reserved.	0x0	R
2	DEBUG	Debug Mode. When this bit is set, the nominal WR and LUT registers are ignored, and the filter configuration is taken from registers 0x70 to 0x79.	0x0	R/W
1	TRACK	Filter Tracking. When this bit is set to one, then all three filters move together, otherwise they are independent.	0x0	R/W
0	INTERPOLATE	Interpolation Enable. When this bit is set to zero, then must program center frequency, bandwidth, and match. When this bit is set to one, then capacitors for center frequency, bandwidth and match will be determined from interpolation.	0x0	R/W

Address: 0x060, Reset: 0x00, Name: FC1_READBACK

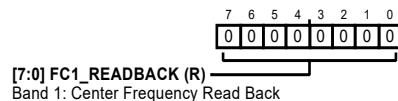


Table 35. Bit Descriptions for FC1_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	FC1_READBACK	Band 1: Center Frequency Read Back.	0x0	R

Address: 0x061, Reset: 0x00, Name: FC2_READBACK

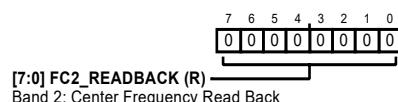


Table 36. Bit Descriptions for FC2_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	FC2_READBACK	Band 2: Center Frequency Read Back.	0x0	R

Address: 0x062, Reset: 0x00, Name: FC3_READBACK

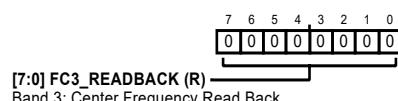


Table 37. Bit Descriptions for FC3_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	FC3_READBACK	Band 3: Center Frequency Read Back.	0x0	R

Address: 0x063, Reset: 0x00, Name: BW1_READBACK

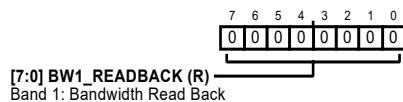


Table 38. Bit Descriptions for BW1_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	BW1_READBACK	Band 1: Bandwidth Read Back.	0x0	R

Address: 0x064, Reset: 0x00, Name: BW2_READBACK

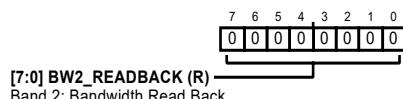


Table 39. Bit Descriptions for BW2_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	BW2_READBACK	Band 2: Bandwidth Read Back.	0x0	R

Address: 0x065, Reset: 0x00, Name: BW3_READBACK

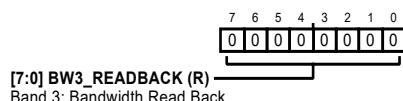


Table 40. Bit Descriptions for BW3_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	BW3_READBACK	Band 3: Bandwidth Read Back.	0x0	R

Address: 0x066, Reset: 0x00, Name: MATCH1_READBACK

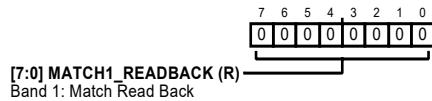


Table 41. Bit Descriptions for MATCH1_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH1_READBACK	Band 1: Match Read Back.	0x0	R

Address: 0x067, Reset: 0x00, Name: MATCH2_READBACK

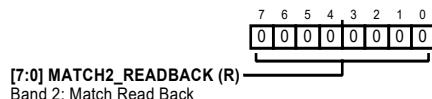


Table 42. Bit Descriptions for MATCH2_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH2_READBACK	Band 2: Match Read Back.	0x0	R

Address: 0x068, Reset: 0x00, Name: MATCH3_READBACK

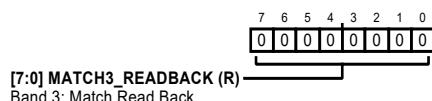


Table 43. Bit Descriptions for MATCH3_READBACK

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH3_READBACK	Band 3: Match Read Back.	0x0	R

Address: 0x069, Reset: 0x00, Name: SW_READBACK

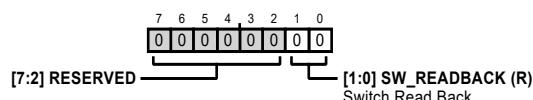


Table 44. Bit Descriptions for SW_READBACK

Bits	Bit Name	Description	Reset	Access
[7:2]	RESERVED	Reserved.	0x0	R
[1:0]	SW_READBACK	Switch Read Back.	0x0	R

Address: 0x070, Reset: 0x00, Name: FC1_DEBUG

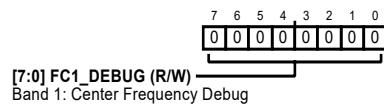


Table 45. Bit Descriptions for FC1_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	FC1_DEBUG	Band 1: Center Frequency Debug.	0x0	R/W

Address: 0x071, Reset: 0x00, Name: FC2_DEBUG

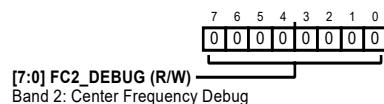


Table 46. Bit Descriptions for FC2_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	FC2_DEBUG	Band 2: Center Frequency Debug.	0x0	R/W

Address: 0x072, Reset: 0x00, Name: FC3_DEBUG

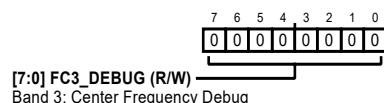


Table 47. Bit Descriptions for FC3_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	FC3_DEBUG	Band 3: Center Frequency Debug.	0x0	R/W

Address: 0x073, **Reset:** 0x00, **Name:** BW1_DEBUG

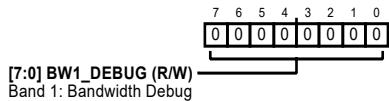


Table 48. Bit Descriptions for BW1_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	BW1_DEBUG	Band 1: Bandwidth Debug.	0x0	R/W

Address: 0x074, **Reset:** 0x00, **Name:** BW2_DEBUG

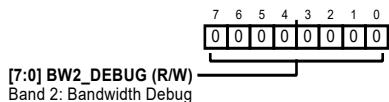


Table 49. Bit Descriptions for BW2_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	BW2_DEBUG	Band 2: Bandwidth Debug.	0x0	R/W

Address: 0x075, **Reset:** 0x00, **Name:** BW3_DEBUG

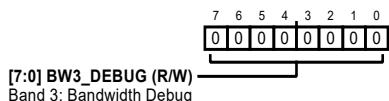


Table 50. Bit Descriptions for BW3_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	BW3_DEBUG	Band 3: Bandwidth Debug.	0x0	R/W

Address: 0x076, Reset: 0x00, Name: MATCH1_DEBUG

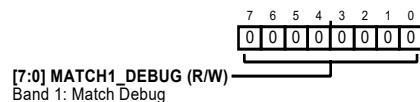


Table 51. Bit Descriptions for MATCH1_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH1_DEBUG	Band 1: Match Debug.	0x0	R/W

Address: 0x077, Reset: 0x00, Name: MATCH2_DEBUG

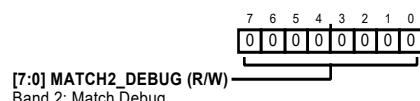


Table 52. Bit Descriptions for MATCH2_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH2_DEBUG	Band 2: Match Debug.	0x0	R/W

Address: 0x078, Reset: 0x00, Name: MATCH3_DEBUG

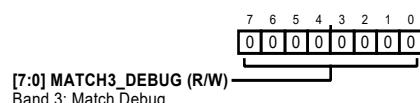


Table 53. Bit Descriptions for MATCH3_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH3_DEBUG	Band 3: Match Debug.	0x0	R/W

Address: 0x079, Reset: 0x00, Name: SW_DEBUG

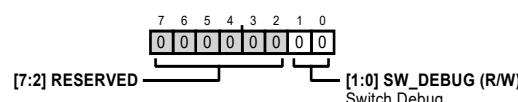


Table 54. Bit Descriptions for SW_DEBUG

Bits	Bit Name	Description	Reset	Access
[7:2]	RESERVED	Reserved.	0x0	R
[1:0]	SW_DEBUG	Switch Debug.	0x0	R/W

Address: 0x100, **Reset:** 0x00, **Name:** LUT0_SW

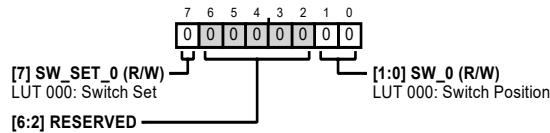


Table 55. Bit Descriptions for LUT0_SW

Bits	Bit Name	Description	Reset	Access
7	SW_SET_0	LUT 000: Switch Set.	0x0	R/W
[6:2]	RESERVED	Reserved.	0x0	R
[1:0]	SW_0	LUT 000: Switch Position. 00: Bypass. 01: Band 1. 10: Band 2. 11: Band 3.	0x0	R/W

Address: 0x101, **Reset:** 0x00, **Name:** LUT0_FC

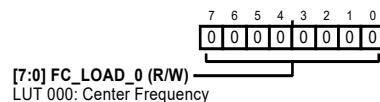


Table 56. Bit Descriptions for LUT0_FC

Bits	Bit Name	Description	Reset	Access
[7:0]	FC_LOAD_0	LUT 000: Center Frequency.	0x0	R/W

Address: 0x102, **Reset:** 0x00, **Name:** LUT0_BW

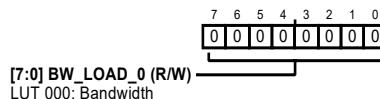


Table 57. Bit Descriptions for LUT0_BW

Bits	Bit Name	Description	Reset	Access
[7:0]	BW_LOAD_0	LUT 000: Bandwidth.	0x0	R/W

Address: 0x103, **Reset:** 0x00, **Name:** LUT0_MATCH

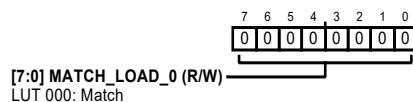


Table 58. Bit Descriptions for LUT0_MATCH

Bits	Bit Name	Description	Reset	Access
[7:0]	MATCH_LOAD_0	LUT 000: Match.	0x0	R/W

Address: 0x300, Reset: 0xC2, Name: BAND1_INTERP_FC_Y0

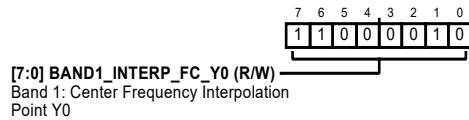


Table 59. Bit Descriptions for BAND1_INTERP_FC_Y0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y0	Band 1: Center Frequency Interpolation Point Y0.	0xC2	R/W

Address: 0x301, Reset: 0x96, Name: BAND1_INTERP_FC_Y1

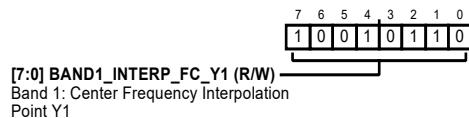


Table 60. Bit Descriptions for BAND1_INTERP_FC_Y1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y1	Band 1: Center Frequency Interpolation Point Y1.	0x96	R/W

Address: 0x302, Reset: 0x77, Name: BAND1_INTERP_FC_Y2



Table 61. Bit Descriptions for BAND1_INTERP_FC_Y2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y2	Band 1: Center Frequency Interpolation Point Y2.	0x77	R/W

Address: 0x303, Reset: 0x50, Name: BAND1_INTERP_FC_Y3

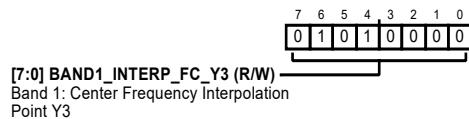


Table 62. Bit Descriptions for BAND1_INTERP_FC_Y3

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y3	Band 1: Center Frequency Interpolation Point Y3.	0x50	R/W

Address: 0x304, Reset: 0x39, Name: BAND1_INTERP_FC_Y4



Table 63. Bit Descriptions for BAND1_INTERP_FC_Y4

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y4	Band 1: Center Frequency Interpolation Point Y4.	0x39	R/W

Address: 0x305, Reset: 0x2A, Name: BAND1_INTERP_FC_Y5

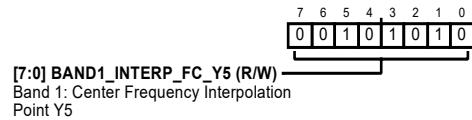


Table 64. Bit Descriptions for BAND1_INTERP_FC_Y5

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y5	Band 1: Center Frequency Interpolation Point Y5.	0x2A	R/W

Address: 0x306, Reset: 0x20, Name: BAND1_INTERP_FC_Y6



Table 65. Bit Descriptions for BAND1_INTERP_FC_Y6

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y6	Band 1: Center Frequency Interpolation Point Y6.	0x20	R/W

Address: 0x307, Reset: 0x18, Name: BAND1_INTERP_FC_Y7



Table 66. Bit Descriptions for BAND1_INTERP_FC_Y7

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y7	Band 1: Center Frequency Interpolation Point Y7.	0x18	R/W

Address: 0x308, Reset: 0x13, Name: BAND1_INTERP_FC_Y8

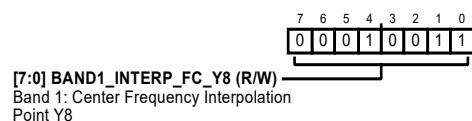


Table 67. Bit Descriptions for BAND1_INTERP_FC_Y8

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y8	Band 1: Center Frequency Interpolation Point Y8.	0x13	R/W

Address: 0x309, Reset: 0x0F, Name: BAND1_INTERP_FC_Y9



Table 68. Bit Descriptions for BAND1_INTERP_FC_Y9

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_FC_Y9	Band 1: Center Frequency Interpolation Point Y9.	0xF	R/W

Address: 0x30A, Reset: 0x02, Name: BAND1_INTERP_BW_V0

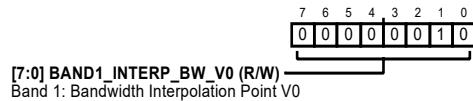


Table 69. Bit Descriptions for BAND1_INTERP_BW_V0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_BW_V0	Band 1: Bandwidth Interpolation Point V0.	0x2	R/W

Address: 0x30B, Reset: 0x16, Name: BAND1_INTERP_BW_V1

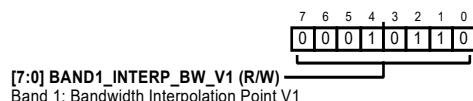


Table 70. Bit Descriptions for BAND1_INTERP_BW_V1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_BW_V1	Band 1: Bandwidth Interpolation Point V1.	0x16	R/W

Address: 0x30C, Reset: 0x8B, Name: BAND1_INTERP_BW_V2

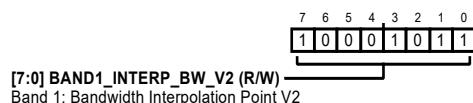


Table 71. Bit Descriptions for BAND1_INTERP_BW_V2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_BW_V2	Band 1: Bandwidth Interpolation Point V2.	0x8B	R/W

Address: 0x30D, Reset: 0x03, Name: BAND1_INTERP_MATCH_T0



Table 72. Bit Descriptions for BAND1_INTERP_MATCH_T0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_MATCH_T0	Band 1: Match Interpolation Point T0.	0x3	R/W

Address: 0x30E, Reset: 0x1D, Name: BAND1_INTERP_MATCH_T1



Table 73. Bit Descriptions for BAND1_INTERP_MATCH_T1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_MATCH_T1	Band 1: Match Interpolation Point T1.	0x1D	R/W

Address: 0x30F, Reset: 0x95, Name: BAND1_INTERP_MATCH_T2



Table 74. Bit Descriptions for BAND1_INTERP_MATCH_T2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND1_INTERP_MATCH_T2	Band 1: Match Interpolation Point T2.	0x95	R/W

Address: 0x310, Reset: 0xEB, Name: BAND2_INTERP_FC_Y0

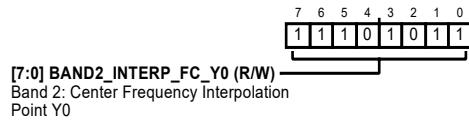


Table 75. Bit Descriptions for BAND2_INTERP_FC_Y0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y0	Band 2: Center Frequency Interpolation Point Y0.	0xEB	R/W

Address: 0x311, Reset: 0xBF, Name: BAND2_INTERP_FC_Y1

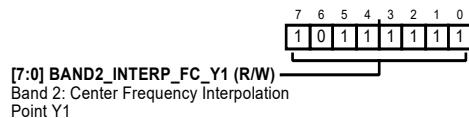


Table 76. Bit Descriptions for BAND2_INTERP_FC_Y1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y1	Band 2: Center Frequency Interpolation Point Y1.	0xBF	R/W

Address: 0x312, Reset: 0x9E, Name: BAND2_INTERP_FC_Y2

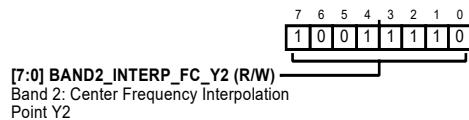


Table 77. Bit Descriptions for BAND2_INTERP_FC_Y2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y2	Band 2: Center Frequency Interpolation Point Y2.	0x9E	R/W

Address: 0x313, Reset: 0x6E, Name: BAND2_INTERP_FC_Y3

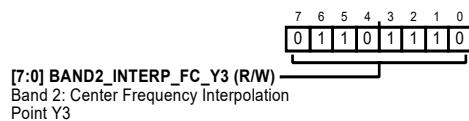


Table 78. Bit Descriptions for BAND2_INTERP_FC_Y3

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y3	Band 2: Center Frequency Interpolation Point Y3.	0x6E	R/W

Address: 0x314, Reset: 0x4F, Name: BAND2_INTERP_FC_Y4



Table 79. Bit Descriptions for BAND2_INTERP_FC_Y4

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y4	Band 2: Center Frequency Interpolation Point Y4.	0x4F	R/W

Address: 0x315, Reset: 0x3A, Name: BAND2_INTERP_FC_Y5



Table 80. Bit Descriptions for BAND2_INTERP_FC_Y5

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y5	Band 2: Center Frequency Interpolation Point Y5.	0x3A	R/W

Address: 0x316, Reset: 0x2B, Name: BAND2_INTERP_FC_Y6



Table 81. Bit Descriptions for BAND2_INTERP_FC_Y6

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y6	Band 2: Center Frequency Interpolation Point Y6.	0x2B	R/W

Address: 0x317, Reset: 0x20, Name: BAND2_INTERP_FC_Y7

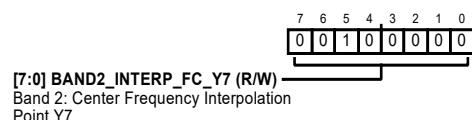


Table 82. Bit Descriptions for BAND2_INTERP_FC_Y7

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y7	Band 2: Center Frequency Interpolation Point Y7.	0x20	R/W

Address: 0x318, Reset: 0x17, Name: BAND2_INTERP_FC_Y8

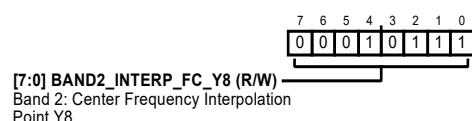


Table 83. Bit Descriptions for BAND2_INTERP_FC_Y8

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y8	Band 2: Center Frequency Interpolation Point Y8.	0x17	R/W

Address: 0x319, Reset: 0x11, Name: BAND2_INTERP_FC_Y9

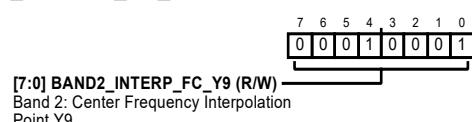


Table 84. Bit Descriptions for BAND2_INTERP_FC_Y9

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_FC_Y9	Band 2: Center Frequency Interpolation Point Y9.	0x11	R/W

Address: 0x31A, Reset: 0x06, Name: BAND2_INTERP_BW_V0

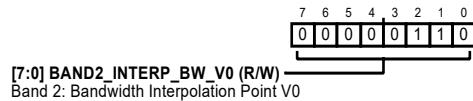


Table 85. Bit Descriptions for BAND2_INTERP_BW_V0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_BW_V0	Band 2: Bandwidth Interpolation Point V0.	0x6	R/W

Address: 0x31B, Reset: 0x13, Name: BAND2_INTERP_BW_V1

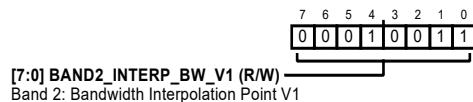


Table 86. Bit Descriptions for BAND2_INTERP_BW_V1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_BW_V1	Band 2: Bandwidth Interpolation Point V1.	0x13	R/W

Address: 0x31C, Reset: 0x5E, Name: BAND2_INTERP_BW_V2

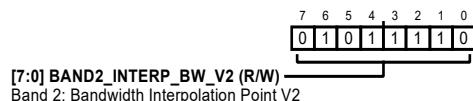


Table 87. Bit Descriptions for BAND2_INTERP_BW_V2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_BW_V2	Band 2: Bandwidth Interpolation Point V2.	0x5E	R/W

Address: 0x31D, Reset: 0x08, Name: BAND2_INTERP_MATCH_T0



Table 88. Bit Descriptions for BAND2_INTERP_MATCH_T0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_MATCH_T0	Band 2: Match Interpolation Point T0.	0x8	R/W

Address: 0x31E, Reset: 0x21, Name: BAND2_INTERP_MATCH_T1



Table 89. Bit Descriptions for BAND2_INTERP_MATCH_T1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_MATCH_T1	Band 2: Match Interpolation Point T1.	0x21	R/W

Address: 0x31F, Reset: 0x8C, Name: BAND2_INTERP_MATCH_T2



Table 90. Bit Descriptions for BAND2_INTERP_MATCH_T2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND2_INTERP_MATCH_T2	Band 2: Match Interpolation Point T2.	0x8C	R/W

Address: 0x320, Reset: 0xB9, Name: BAND3_INTERP_FC_Y0

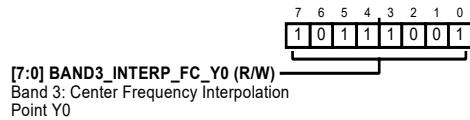


Table 91. Bit Descriptions for BAND3_INTERP_FC_Y0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y0	Band 3: Center Frequency Interpolation Point Y0.	0xB9	R/W

Address: 0x321, Reset: 0x97, Name: BAND3_INTERP_FC_Y1

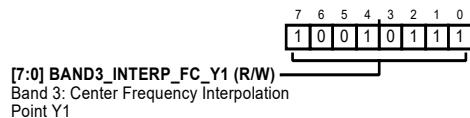


Table 92. Bit Descriptions for BAND3_INTERP_FC_Y1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y1	Band 3: Center Frequency Interpolation Point Y1.	0x97	R/W

Address: 0x322, Reset: 0x7C, Name: BAND3_INTERP_FC_Y2



Table 93. Bit Descriptions for BAND3_INTERP_FC_Y2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y2	Band 3: Center Frequency Interpolation Point Y2.	0x7C	R/W

Address: 0x323, Reset: 0x55, Name: BAND3_INTERP_FC_Y3



Table 94. Bit Descriptions for BAND3_INTERP_FC_Y3

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y3	Band 3: Center Frequency Interpolation Point Y3.	0x55	R/W

Address: 0x324, Reset: 0x3B, Name: BAND3_INTERP_FC_Y4



Table 95. Bit Descriptions for BAND3_INTERP_FC_Y4

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y4	Band 3: Center Frequency Interpolation Point Y4.	0x3B	R/W

Address: 0x325, Reset: 0x28, Name: BAND3_INTERP_FC_Y5



Table 96. Bit Descriptions for BAND3_INTERP_FC_Y5

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y5	Band 3: Center Frequency Interpolation Point Y5.	0x28	R/W

Address: 0x326, Reset: 0x1B, Name: BAND3_INTERP_FC_Y6



Table 97. Bit Descriptions for BAND3_INTERP_FC_Y6

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y6	Band 3: Center Frequency Interpolation Point Y6.	0x1B	R/W

Address: 0x327, Reset: 0x11, Name: BAND3_INTERP_FC_Y7



Table 98. Bit Descriptions for BAND3_INTERP_FC_Y7

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y7	Band 3: Center Frequency Interpolation Point Y7.	0x11	R/W

Address: 0x328, Reset: 0x09, Name: BAND3_INTERP_FC_Y8



Table 99. Bit Descriptions for BAND3_INTERP_FC_Y8

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y8	Band 3: Center Frequency Interpolation Point Y8.	0x09	R/W

Address: 0x329, Reset: 0x03, Name: BAND3_INTERP_FC_Y9



Table 100. Bit Descriptions for BAND3_INTERP_FC_Y9

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_FC_Y9	Band 3: Center Frequency Interpolation Point Y9.	0x03	R/W

Address: 0x32A, Reset: 0x10, Name: BAND3_INTERP_BW_V0

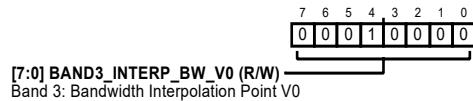


Table 101. Bit Descriptions for BAND3_INTERP_BW_V0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_BW_V0	Band 3: Bandwidth Interpolation Point V0.	0x10	R/W

Address: 0x32B, Reset: 0x1F, Name: BAND3_INTERP_BW_V1

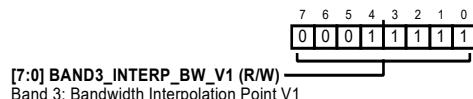


Table 102. Bit Descriptions for BAND3_INTERP_BW_V1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_BW_V1	Band 3: Bandwidth Interpolation Point V1.	0x1F	R/W

Address: 0x32C, Reset: 0x85, Name: BAND3_INTERP_BW_V2

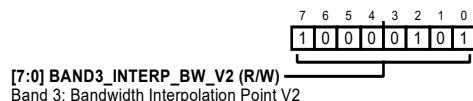


Table 103. Bit Descriptions for BAND3_INTERP_BW_V2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_BW_V2	Band 3: Bandwidth Interpolation Point V2.	0x85	R/W

Address: 0x32D, Reset: 0x13, Name: BAND3_INTERP_MATCH_T0



Table 104. Bit Descriptions for BAND3_INTERP_MATCH_T0

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_MATCH_T0	Band 3: Match Interpolation Point T0.	0x13	R/W

Address: 0x32E, Reset: 0x2A, Name: BAND3_INTERP_MATCH_T1



Table 105. Bit Descriptions for BAND3_INTERP_MATCH_T1

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_MATCH_T1	Band 3: Match Interpolation Point T1.	0x2A	R/W

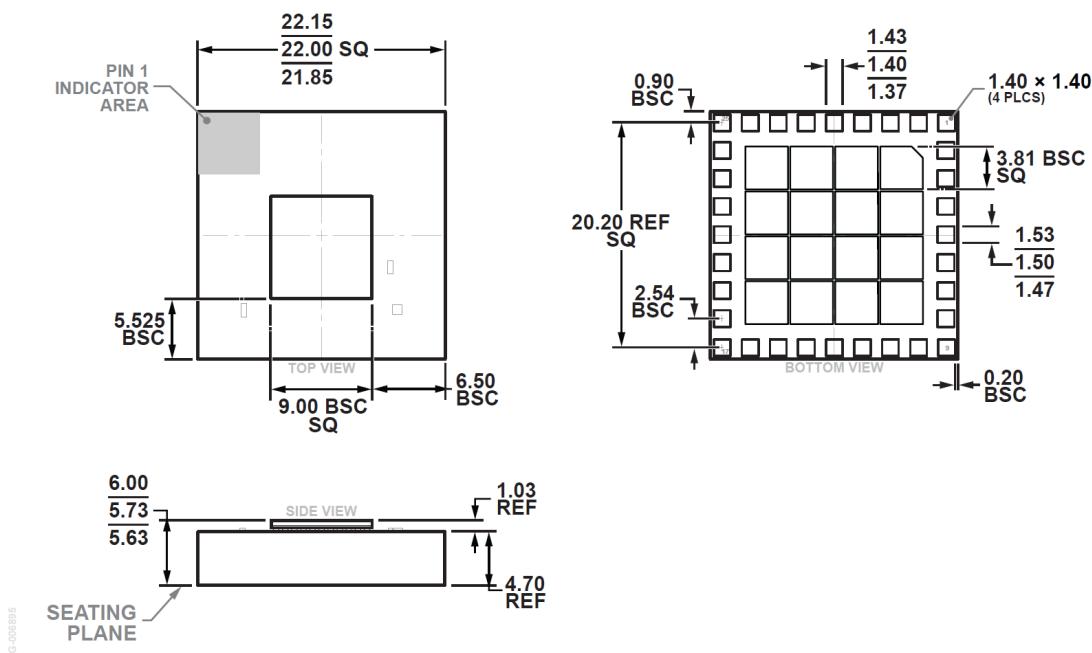
Address: 0x32F, Reset: 0xA2, Name: BAND3_INTERP_MATCH_T2



Table 106. Bit Descriptions for BAND3_INTERP_MATCH_T2

Bits	Bit Name	Description	Reset	Access
[7:0]	BAND3_INTERP_MATCH_T2	Band 3: Match Interpolation Point T2.	0xA2	R/W

OUTLINE DIMENSIONS



*Figure 24. Land Grid Array Package [LGA]
22 mm × 22 mm Body and 5.73 mm Package Height
(CC-32-8)
Dimensions shown in millimeters*

PN-G-200-BB5

09-21-2020-B