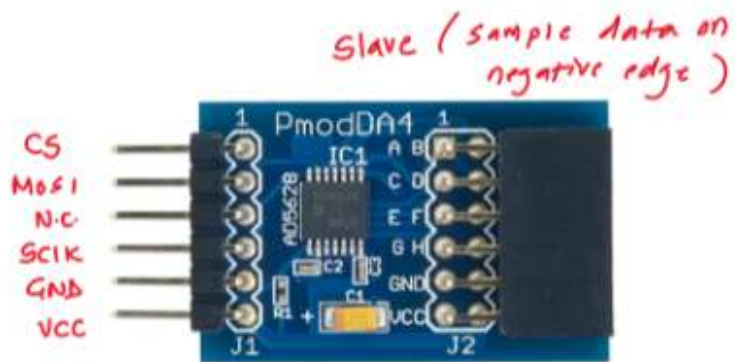
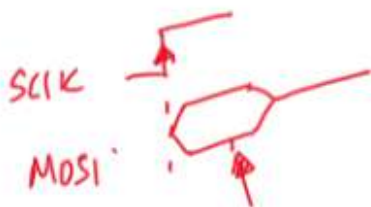
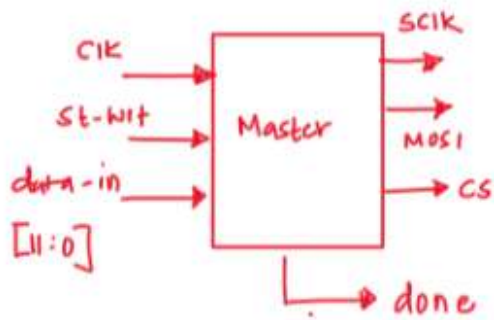


Pin	Signal	Description
1	\sim CS	Chip Select
2	MOSI	Master-Out-Slave-In
3	(NC)	Not Connected
4	SCLK	Serial Clock
5	GND	Power Supply Ground
6	VCC	Power Supply (3.3V/5V)



1.8 MSPS \rightarrow 1.8 MHz

1 MHz \rightarrow 100 MHz

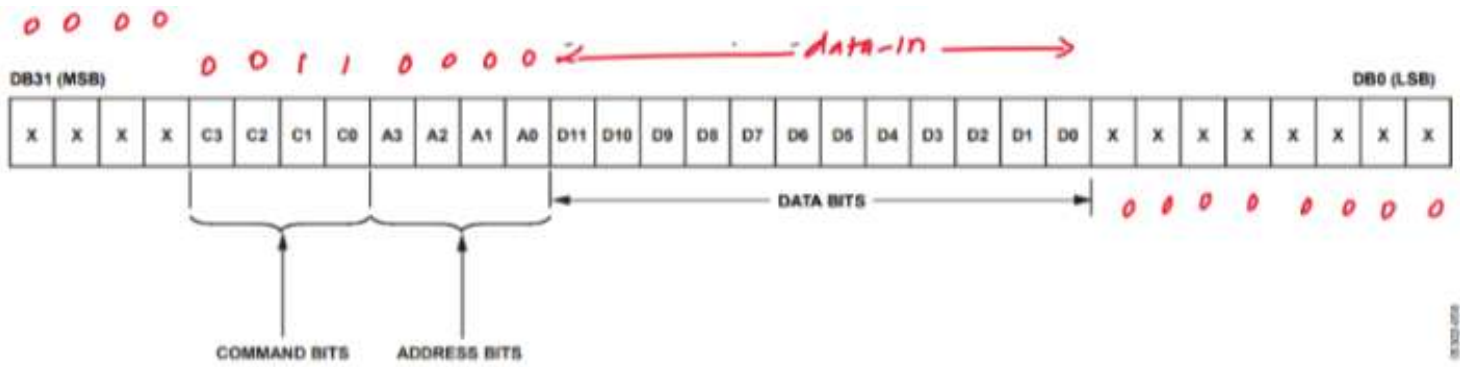


Figure 59. AD5628 Input Register Contents

data - (12'h030, data-in, 8'h00)

Table 9. Command Definitions

Command				Description
C3	C2	C1	C0	
0	0	0	0	Write to Input Register n
0	0	0	1	Update DAC Register n
0	0	1	0	Write to Input Register n, update all (software LDAC)
0	0	1	1	Write to and update DAC Channel n
0	1	0	0	Power down/power up DAC
0	1	0	1	Load clear code register
0	1	1	0	Load LDAC register
0	1	1	1	Reset (power-on reset)
1	0	0	0	Set up internal REF register
1	0	0	1	Reserved
–	–	–	–	Reserved
1	1	1	1	Reserved

Table 10. Address Commands

Address (n)				Selected DAC Channel
A3	A2	A1	A0	
0	0	0	0	DAC A
0	0	0	1	DAC B
0	0	1	0	DAC C
0	0	1	1	DAC D
0	1	0	0	DAC E
0	1	0	1	DAC F
0	1	1	0	DAC G
0	1	1	1	DAC H
1	1	1	1	All DACs

INTERNAL REFERENCE REGISTER

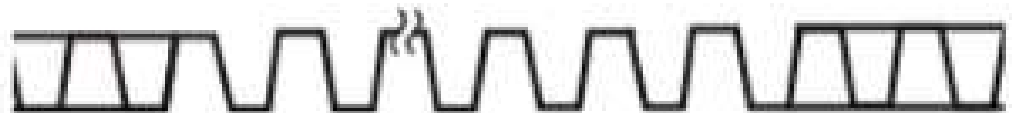
The on-board reference is off at power-up by default. This allows the use of an external reference if the application requires it. The on-board reference can be turned on or off by a user-programmable internal REF register by setting Bit DB0 high or low (see Table 11). Command 1000 is reserved for setting the internal REF register (see Table 9). Table 13 shows how the state of the bits in the input shift register corresponds to the mode of operation of the device.

setup - 32'h 08000001

Table 12. 32-Bit Input Shift Register Contents for Reference Set-Up Command

MSB									LSB	
DB31 to DB28	DB27	DB26	DB25	DB24	DB23	DB22	DB21	DB20	DB19 to DB1	DB0
X	1	0	0	0	X	X	X	X	X	1/0
Don't cares	Command bits (C3 to C0)				Address bits (A3 to A0)—don't cares				Don't cares	Internal REF register

SClK



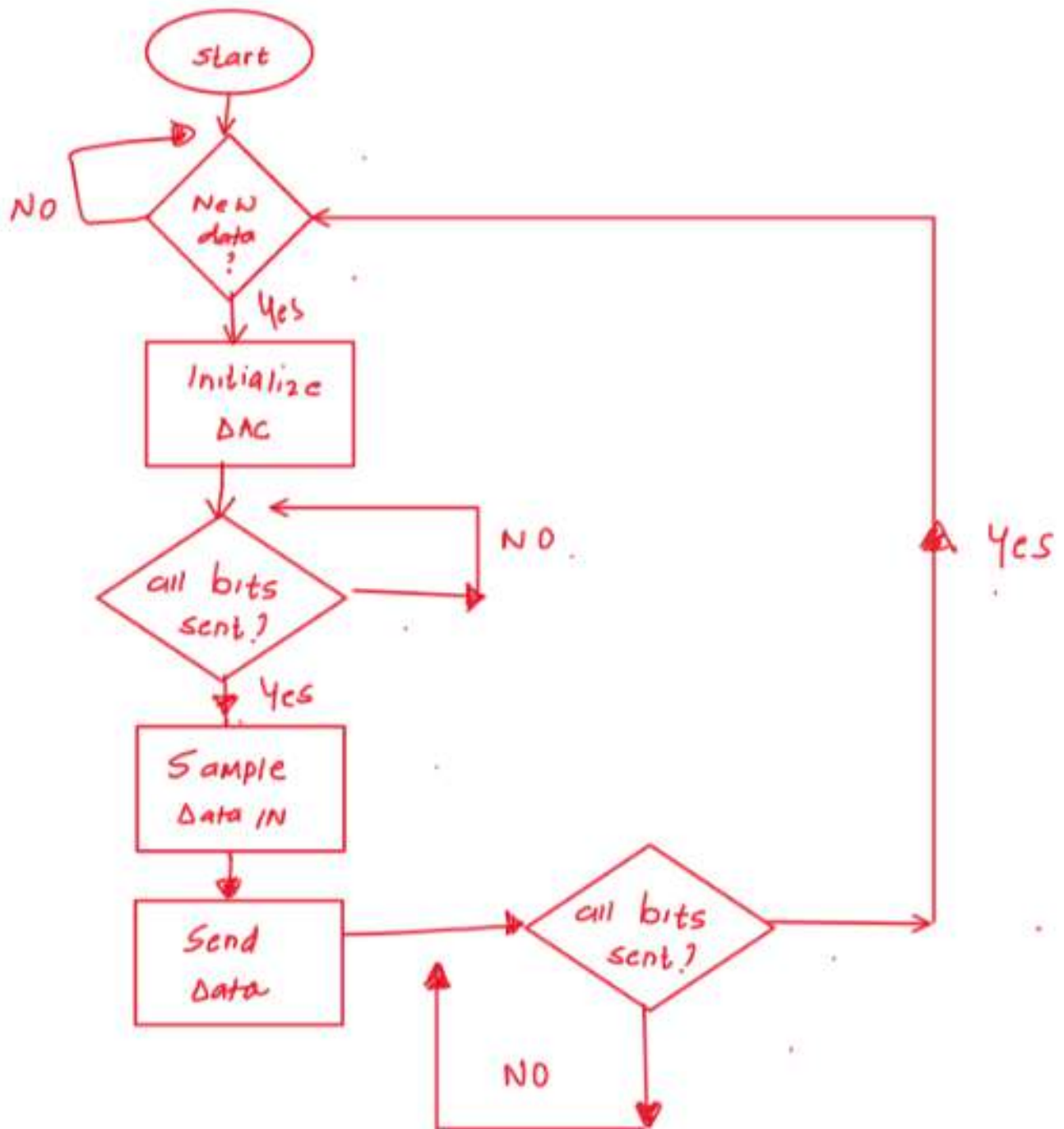
CS



MOSI



VALID WRITE SEQUENCE, OUTPUT UPDATES
ON THE 32ND FALLING EDGE



$\leftarrow T \rightarrow$

