|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| DB[0] | **Router bits**  0000 = 0 = READ ADC  0001 = 1 = WRITE DAC  0010 = 2 = AUTORAMP  0011 = 3 = Reset ADC  0100 = 4 = TALK ADC, Writes DATA BYTE 1, sends result back  0101 = 5 = Write ADC Conversion Time  0110 = 6 = Auto Calibrate DAC (NOT IMPLEMENTED) | | | | **DAC address**  00=0=A  01=1=B  10=2=C  11=3=D | | **ADC address**  00=0=None, RETURNS NOTHING  01=1=IN0, RETURNS 2 BYTES  10=2=IN1, RETURNS 2 BYTES  11=3=BOTH, RETURNS 4 BYTES | |
| DB[1] | DATA BYTE 1 (start 1)  Two’s complement coding for AD5764 | | | | | | | |
| DB[2] | DATA BYTE 2 (start 2 )  Two’s complement coding for AD5764 | | | | | | | |
| DB[3] | DATA BYTE 3 (stop 1)  Two’s complement coding for AD5764 | | | | | | | |
| DB[4] | DATA BYTE 4 (stop 2)  Two’s complement coding for AD5764 | | | | | | | |
| DB[5] | Nsteps  Number of data points in an autoramp | | | | | | | |
| DB[6] | Reserved for Delay  Delay time in units tbd. NOT IMPLEMENTED | | | | | | | |