

circuit of AD9951

pin	name	connected to	comment
1	I/O Update	Atmel Xmega 256 A3	USARTD Pin 0 & 4
2	DVDD	1V8	
3	DGND	GND	
4	AVDD	1V8	
5	AGND	GND	
6	AVDD	1V8	
7	AGND	GND	
8	REFCLKB	with 100nF serial to 1V8	
9	REFCLK	with 100nF serial to a 20 MHz	external MEMS Oszillator
10	CRYSTAL OUT	NC	
11	CLKMODESELECT	GND	
12	LOOP Filter	1kΩ and 100nF serial to 1V8	
13	AVDD	1V8	
14	AGND	GND	
15	AGND	GND	
16	AVDD	1V8	
17	AGND	GND	
18	AVDD	1V8	
19	AVDD	1V8	
20	IOUTB	with 56R serial to 1V8	
21	IOUT	with 56R serial to 1V8	
22	AGND	GND	
23	DACBP	with100nF serial to GND	
24	DAC_R SET	with 3K9 to GND	
25	AVDD	1V8	
26	AGND	GND	
27	AVDD	1V8	
28	AGND	GND	
29	AVDD	1V8	
30	AGND	GND	
31	AGND	GND	
32	AGND	GND	
33	DGND	GND	
34	DVDD	1V8	
35	PWRDWNCTL	GND	
36	RESET	Atmel Xmega 256 A3	USARTD Pin 3 & 7
37	IOSYNC	GND	
38	SDO	NC	
39	CSB	GND	
40	SCLK	Atmel Xmega 256 A3	USARTD Pin 1 & 5
41	SDIO	Atmel Xmega 256 A3	USARTD Pin 2 & 6
42	DGND	GND	
43	DVDD I/O	3V3	
44	SYNC_IN	NC	
45	SYNC_CLK	NC	
46	OSK	GND	

47	DGND	GND	
48	DGND	GND	
49	EPAD	GND	