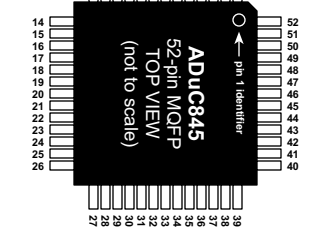
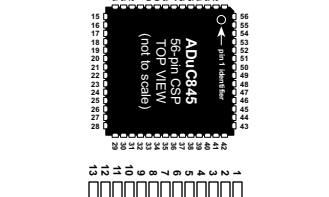




Pin Functions

MOFF CSP	Pin	Function
2	1	P1.1 / AIN2
3	2	P1.2 / AIN3 / REFIN2+
4	3	P1.3 / AIN4 / REFIN2-
5	4	AV _{DD}
-	5	AGND
6	6	AGND
7	7	REFIN+
8	8	REFIN-
9	9	P1.4 / AIN5
10	10	P1.5 / AIN6
11	11	P1.6 / AIN7 / IEXC1
12	12	P1.7 / AIN8 / IEXC2
13	13	AINCOM / DAC
14	14	DAC

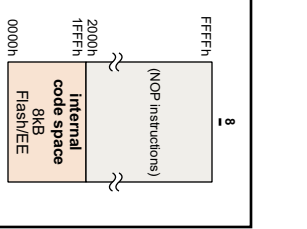
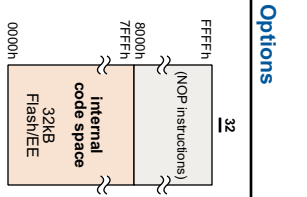


MOFF CSP	Pin	Function
-	15	AIN9 (CSP package only)
-	16	AIN10 (CSP package only)
16	17	RESET
16	18	P3.0 / RD
17	19	P3.1 / TxD
18	20	P3.2 / INT0
19	21	P3.3 / INT1
20	22	DV _{DD}
21	23	DQND
22	24	P3.4 / T0
23	25	P3.5 / T1
24	26	P3.6 / WR
25	27	P3.7 / RD
26	28	SOCLK (V _{CC})

MOFF CSP	Pin	Function
27	29	SDATA (V _{CC})
28	30	P2.0 / SOCLK (SPI)
29	31	P2.1 / MOSI (SPI)
30	32	P2.2 / MISO (SPI)
31	33	P2.3 / SS / T2
32	34	XTAL1 (m)
33	35	XTAL2 (out)
34	36	DV _{DD}
35	37	DQND
-	38	DQND
36	39	P2.4 / T2EX
37	40	P2.5 / PWM0
38	41	P2.6 / PWM1
39	42	P2.7 / PWMCLK

MOFF CSP	Pin	Function
40	43	EA
41	44	PSEN
42	45	ALE
43	46	P0.0 / AD0
44	47	P0.1 / AD1
45	48	P0.2 / AD2
46	49	P0.3 / AD3
47	50	DQND
48	51	DV _{DD}
49	52	P0.4 / AD4
50	53	P0.5 / AD5
51	54	P0.6 / AD6
52	55	P0.7 / AD7
53	56	P1.0 / AIN1

bytes	OSC periods	Function
1	1	clear A to zero
1	1	rotate A left
1	1	...through C
1	1	rotate A right
1	1	...through C
1	1	swap nibbles
1	1	clear A to zero
1	1	rotate A left
1	1	...through C
1	1	rotate A right
1	1	...through C
1	1	swap nibbles
1	1	clear A to zero
1	1	rotate A left
1	1	...through C
1	1	rotate A right
1	1	...through C
1	1	swap nibbles
1	1	clear A to zero
1	1	rotate A left
1	1	...through C
1	1	rotate A right
1	1	...through C
1	1	swap nibbles

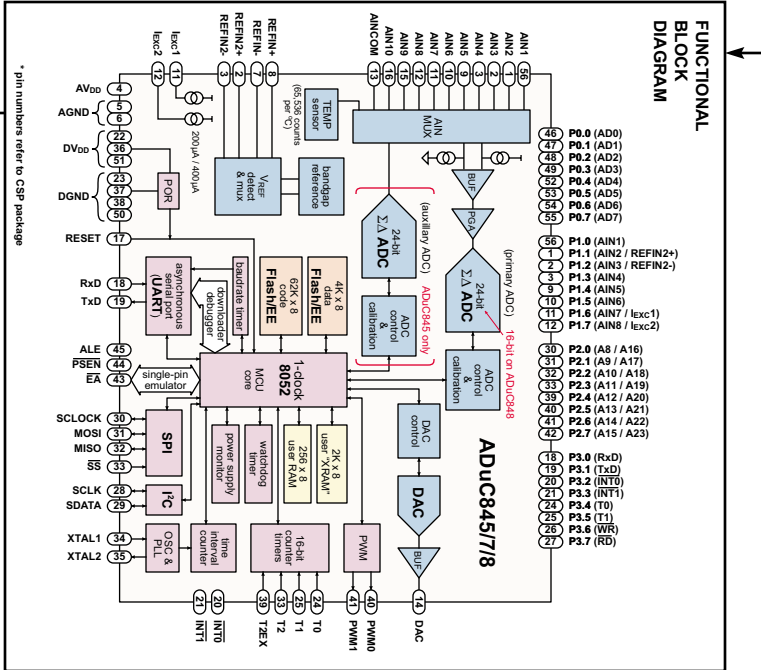


Code Memory Space Options

Interrupt Vector Addresses

Interrupt Bit	Interrupt Name	Vector Address	Relative Priority
PSMCON.5	Power Supply Monitor Interrupt	43h	1
WDS	Watchdog Timer Interrupt	5Bh	2
IE0	External Interrupt 0	03h	3
RDY0/RDY1	End of ADC Conversion Interrupt	33h	4
TF0	Timer0 Overflow Interrupt	0Bh	5
IE1	External Interrupt 1	13h	6
TF1	Timer1 Overflow Interrupt	1Bh	7
ISPI/ISCI	SPI/PC Interrupt	3Bh	8
RI/TI	UART Interrupt	23h	9
TF2/EXIF2	Timer2 Interrupt	2Bh	10
TIMECON.2	Time Interval Counter Interrupt	53h	11

ADuC845/ADuC847/ADuC848 MicroConverter® Quick Reference Guide



A Precision Analog Flash MCU The ADuC845/ADuC847/ADuC848 is:

- ADC:**
 - 24-bit[†] primary ADC, differential w/ programmable gain
 - 24-bit auxiliary ADC, single-ended w/ fixed gain (ADuC845 only)
 - 10-channel input mux
- DAC:**
 - 12-bit, 15µs, voltage output
 - <-1LSB DNL
- Flash/EEPROM:**
 - up to 62KB Flash/EE program memory
 - 4KB Flash/EE data memory
- Microcontroller:**
 - *single-cycle[†] 8052, up to 12.8MIPS
 - 32 I/O lines, programmable PLL clock (98.3kHz to 12.6MHz from 32kHz crystal)
- Embedded Tools Support:**
 - on-chip download/debug & single-pin emulation functions
- Other on-chip features:**
 - temperature sensor, power supply monitor, watchdog timer, flexible serial interface ports, voltage reference, time interval counter, dual 8-16-bit PWM, power-on-reset

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