

ISA Pinouts

ISA Board Connector Pinouts

D = Digital | A = Analog | Int = Internal Cable

PC-14B

IDC-50M		D	DB25M (Int)		D	IDC26M		D
1 DA0	2 DA1	13 NU1	14 +12V	25 EXT INT	3 -12V	2 +12V	1	12V
3 DA2	4 DA3	12 EXT INT	24 -5V	24 EXT INT	5 N/C	4 -12V	2	-12V
5 DA4	6 DA5	11 -5V	23 +5V	23 +5V	7 CLK IN 0	6 N/C	3	N/C
7 DA6	8 DA7	10 +5V	22 GND	22 GND	8 N/C	7 N/C	4	N/C
9 DB0	10 DB1	9 GND	21 GATE1	21 GATE1	9 GATE0	10 OUT0	5	OUT0
11 DB2	12 DB3	8 OUT1	20 GATE2	20 GATE2	11 OUT2	12 CLK IN 2	6	CLK IN 2
13 DB4	14 DB5	7 CLK IN 1	19 CLK IN 1	19 CLK IN 1	13 CLK IN 1	14 GATE2	7	CH3
15 DB6	16 DB7	6 OUT2	18 CLK IN 2	18 CLK IN 2	15 OUT1	16 GATE1	8	CH1
17 DC0	18 DC1	5 GATE0	17 N/C	17 N/C	17 GND	18 GND	9	PORT B7
19 DC2	20 DC3	4 CLK IN 0	16 N/C	16 N/C	19 +5V	20 +5V	10	PORT B5
21 DC4	22 DC5	3 N/C	15 N/C	15 N/C	21 -5V	22 -5V	11	PORT A6
23 DC6	24 DC7	2 -12V	14 +12V	14 +12V	23 EXT INT	24 EXT INT	12	PORT A4
25 DA0	26 DA1	1 +12V			25 NU1	26 N/C	13	PORT A4
27 IA2	28 IA3						14	PORT A2
29 IA4	30 IA5						15	PORT A0
31 IA6	32 IA7						16	PORT C6
33 IB0	34 IB1						17	DGND/+5V
35 IB2	36 IB3							
37 IB4	38 IB5							
39 IB6	40 IB7							
41 IC0	42 IC1							
43 IC2	44 IC3							
45 IC4	46 IC5							
47 IC6	48 IC7							
49 +5V	50 GND							

PC-30F/G & PC-30DX

DB50F (Int)		A + D
1 DAC0 O/P	18 DAC1 O/P	34 DAC3 O/P
2 +12V	19 CH9	35 DAC2 O/P
3 -12V	20 CH0	36 CH10
4 CH8	21 EXT CLK	37 CH11
5 CH7	22 CH6	38 CH12
6 CH5	23 CH4	39 CH13
7 CH3	24 CH2	40 CH14
8 CH1	25 EXT TRIG	41 CH15
9 PORT B7	26 PORT B6	42 AGND
10 PORT B5	27 PORT B3	43 PORT B0
11 PORT B4	28 PORT A7	44 PORT B1
12 PORT A6	29 PORT A5	45 PORT B2
13 PORT A4	30 PORT A3	46 PORT C3
14 PORT A2	31 PORT A1	47 PORT C2
15 PORT A0	32 PORT C7	48 PORT C0
16 PORT C6	33 PORT C5	49 PORT C1
17 DGND/+5V		50 PORT C4

PC-31C

IDC10M		RS-232	DB25M (Int)		RS-232
1 DCD	6 DSR	1	13 N/C	25 N/C	1
2 DTR	7 RTS	2	11 N/C	24 N/C	2
3 TXD	8 CTS	3	10 N/C	23 N/C	3
4 DTR	9 RI	4	9 N/C	22 N/C	4
5 DGND	10 N/C	5	8 N/C	21 RI	5
			7 DSR	20 DTR	6
			6 DSR	19 N/C	7
			5 CTS	18 N/C	8
			4 RTS	17 N/C	9
			3 RXD	16 N/C	10
			2 TXD	15 N/C	11
			1 DGND	14 N/C	12

DB9M (Int)		RS-232
5 DGND	9 RI	1
4 DTR	8 CTS	2
3 TXD	7 RTS	3
2 RXD	6 DSR	4
1 DCD		5

PC-36A/B/C

DB37M		D
19 PB7	37 DGND	1
18 PB6	36 5V	2
17 PB5	35 5V	3
16 PB4	34 -12V	4
15 PB3	33 EXT TRIG RET	5
14 PB2	32 EXT TRIG	6
13 PB1	31 DGND	7
12 PBO	30 DGND	8
11 PA7	29 DGND	9
10 PA6	28 DGND	10
9 PA4	27 PC7	11
8 PA3	26 PC6	12
7 PA2	25 PC5	13
6 PA1	24 PC4	14
5 PA0	23 PC0	15
4 DGND	22 PC1	16
3 +5V	21 PC2	17
2 +12V	20 PC3	18

PC-40

DB37M D to Synchro Resolver	
19 A REF HI	37 B REF HI
18 A REF LO	36 B REF LO
17 AS1	35 BS1
16 AS2	34 BS2
15 AS3	33 BS3
14 AS4	32 BS4
13 C REF HI	31 D REF HI
12 C REF LO	30 D REF LO
11 CS1	29 DS1
10 CS2	28 DS2
9 CS3	27 DS3
8 CS4	26 DS4
7 N/C	25 N/C
6 +5V	24 N/C
5 +5V	23 N/C
4 0V	22 N/C
3 0V	21 N/C
2 -15V	20 N/C
1 -15V	

PC-58/41

DB50M D to Synchro Resolver		
17 CS3	33 CS4	50 H REF
16 CS1	32 C REF	48 HS4
15 CS2	31 D VEL	47 HS2
14 C VEL	30 DS1	46 HS1
13 B REF	29 DS2	45 H VEL
12 BS4	28 DS3	44 G REF
11 BS3	27 DS4	43 GS4
10 BS2	26 D REF	42 GS3
9 BS1	25 E REF	41 GS2
8 B VEL	24 E VEL	40 GS1
7 A REF	23 ES2	39 F VEL
6 AS4	22 ES3	38 F REF
5 AS3	21 ES4	37 FS4
4 AS2	20 E REF	36 FS3
3 AS1	19 F VEL	35 FS2
2 A GND	18 VEL GND	34 FS1
1 REF VLD		

PC-60

DB37M mV	
19 CHAN(-)	37 DGND
18 CHAN(+)	36 DGND
17 CHAN(+)	35 +5V
16 CHAN(+)	34 -12V
15 CHAN(-)	33 CHAN(+)
14 CHAN(-)	32 CHAN(+)
13 CHAN(-)	31 CHAN(+)
12 CHAN(-)	30 CHAN(+)
11 CHAN(-)	29 CHAN(+)
10 CHAN(+)	28 CHAN(+)
9 CHAN(+)	27 CHAN(+)
8 CHAN(+)	26 CHAN(+)
7 CHAN(-)	25 CHAN(+)
6 CHAN(-)	24 CHAN(+)
5 CHAN(-)	23 CHAN(+)
4 CHAN(-)	22 CHAN(+)
3 CHAN(-)	21 CHAN(+)
2 CHAN(-)	20 CHAN(+)
1 CHAN(-)	

PC-61

DB25M mA	
13 CH6(+)	25 DGND
12 CH5(-)	24 DGND
11 CH4(+)	23 DGND
10 CH4(-)	22 DGND
9 CH4(+)	21 DGND
8 CH5(-)	20 DGND
7 CH3(+)	19 DGND
6 CH2(-)	18 DGND
5 CH2(+)	17 DGND
4 CH1(-)	16 CH7(+)
3 CH1(+)	15 CH7(-)
2 CH0(+)	14 CH6(-)
1 CH0(+)	

PC-62C

IDC-40M		D	DB37F (Int) Use PCI-63-I/O		D
1 DO0	2 DO1	20 DO1	1 DO0	1 PORTA0	20 PORTB0
3 DO2	4 DO3	21 DO3	2 DO2	2 PORTA0 RET	21 PORTB0 RET
5 DO4	6 DO5	22 DO5	3 DO4	3 PORTA1	22 PORTB1
7 DO6	8 DO7	23 DO7	4 DO6	4 PORTA1 RET	23 PORTB1 RET
9 DGND	10 DO8	24 DO8	5 DGND	5 PORTA2	24 PORTB2
11 DO9	12 DO10	25 DO10	6 DO9	6 PORTA2 RET	25 PORTB2 RET
13 DO11	14 DO12	26 DO12	7 DO11	7 PORTA3	26 PORTB3
15 DO13	16 DO14	27 DO14	8 DO13	8 PORTA3 RET	27 PORTB3 RET
17 DO15	18 DGND	28 DGND	9 DO15	9 PORTA4	28 PORTB4
19 DIO	20 DIO	29 DIO	10 DIO	10 PORTA4 RET	29 PORTB4 RET
21 DI2	22 DI3	30 DI3	11 DI2	11 PORTA5	30 PORTB5
23 DI4	24 DI5	31 DI5	12 DI4	12 PORTA5 RET	31 PORTB5 RET
25 DI6	26 DI7	32 DI7	13 DI6	13 PORTA6	32 PORTB6
27 DGND	28 DI8	33 DI8	14 DGND	14 PORTA6 RET	33 PORTB6 RET
29 DI9	30 DI10	34 DI10	15 DI9	15 PORTA7	34 PORTB7
31 DI11	32 DI12	35 DI12	16 DI11	16 PORTA7 RET	35 PORTB7 RET
33 DI13	34 DI14	36 DI14	17 DI13	17 PORTA COM RET	36 PORTB COM RET
35 DI15	36 DGND	37 DGND	18 DI15	18 +12V	37 DGND
37 DGND	38 DGND		19 DGND	19 +5V	
39 DGND	40 DGND				

PC-62C & PC-65

DB37F Opto-Isolator	
1 PORTA0	20 PORTB0
2 PORTA0 RET	21 PORTB0 RET
3 PORTA1	22 PORTB1
4 PORTA1 RET	23 PORTB1 RET
5 PORTA2	24 PORTB2
6 PORTA2 RET	25 PORTB2 RET
7 PORTA3	26 PORTB3
8 PORTA3 RET	27 PORTB3 RET
9 PORTA4	28 PORTB4
10 PORTA4 RET	29 PORTB4 RET
11 PORTA5	30 PORTB5
12 PORTA5 RET	31 PORTB5 RET
13 PORTA6	32 PORTB6
14 PORTA6 RET	33 PORTB6 RET
15 PORTA7	34 PORTB7
16 PORTA7 RET	35 PORTB7 RET
17 PORTA COM RET	36 PORTB COM RET
18 +12V	37 DGND
19 +5V	

PC-63C

DB37F Reed Relay	
1 +12	20 RLA9
3 RLA1	22 RLA10
5 RLA2	24 RLA11
7 RLA3	26 RLA12
8 RLA4	27 RLA13
9 RLA5	28 RLA14
10 RLA6	29 RLA15
11 RLA6	30 RLA14
12 RLA6	31 RLA15
13 RLA7	33 RLA15
14 RLA7	34 RLA16
15 RLA8	35 RLA16
17 RLA8	36 +5V
18 EXT INT	37 DGND
19 EXT INT RET	

PC-66C

DB37F		A
1 MONO DAC0 O/P	20 MONO DAC2 O/P	1
2 MONO DAC3 O/P	21 MONO DAC4 O/P	2
3 MONO DAC5 O/P	22 MONO DAC8 O/P	3
4 MONO DAC7 O/P	23 MONO DAC9 O/P	4
5 BI DAC1 O/P	24 REMOTE SENS DAC1 I/P	5
6 BI DAC2 O/P	25 REMOTE SENS DAC2 I/P	6
7 BI DAC3 O/P	26 REMOTE SENS DAC3 I/P	7
8 BI DAC4 O/P	27 REMOTE SENS DAC4 I/P	8
9 BI DAC5 O/P	28 REMOTE SENS DAC5 I/P	9
10 BI DAC6 O/P	29 REMOTE SENS DAC6 I/P	10
11 BI DAC7 O/P	30 REMOTE SENS DAC7 I/P	11
12 REMOTE SENS DAC8 I/P	31 REMOTE SENS DAC9 I/P	12
13 REMOTE SENS DAC10 I/P	32 REMOTE SENS DAC10 I/P	13
14 REMOTE SENS DAC12 I/P	33 BI DAC11 O/P	14
15 BI DAC12 O/P	34 BI DAC10 O/P	15
16 BI DAC9 O/P	35 BI DAC8 O/P	16
17 AGND	36 AGND	17
18 EXT TRIG	37 AGND	18
19 EXT TRIG RET		19

PC-73

DB25M Temperature		IDC26M	D	DB25M (Int)		D
13 CHAN(+)	25 CHAN(-)	1 DI0	14 DI1	13 DO7	25 +5V	1
11 CHAN(+)	23 CHAN(-)	2 DI2	15 DI3	12 DO6	24 DGND	2
9 CHAN(+)	22 CHAN(-)	3 DI4	16 DI5	11 DO5	23 DGND	3
8 CHAN(+)	21 CHAN(-)	4 DI6	17 DI7	10 DO4	22 DGND	4
7 CHAN(+)	20 CHAN(-)	5 DGND	18 DGND	9 DO3	21 DGND	5
6 CHAN(+)	19 CHAN(-)	6 DO0	19 DGND	8 DO2	20 DGND	6
5 CHAN(+)	18 CHAN(-)	7 DO1	20 DGND	7 DO1	19 DGND	7
4 AGND	17 AUX LED	8 DO2	21 DGND	6 DO0	18 DGND	8
3 AGND	16 CJC I/P	9 DO3	22 DGND	5 DGND	17 DGND	9
2 AGND	15 +5V	10 DO4	23 DGND	4 DI6	17 DI7	10
1 AGND		11 DO5	24 DGND	3 DI4	16 DI5	11
		12 DO6	25 +5V	2 DI2	15 DI3	12
		13 DO7	26 DGND	1 DI0	14 DI1	13

PC-166/167/266

IDC-50M		A
1 CH0	2 RFB0	1
3 CH1	4 RFB1	2
5 CH2	6 RFB2	3
7 CH3	8 RFB3	4
9 CH4	10 RFB4	5
11 CH5	12 RFB5	6
13 CH6	14 RFB6	7
15 CH7	16 RFB7	8
17 CH8	18 RFB8	9
19 CH9	20 RFB9	10
21 CH10	22 RFB10	11
23 CH11	24 RFB11	12
25 CH12	26 RFB12	13
27 CH13	28 RFB13	14
29 CH14	30 RFB14	15
31 CH15	32 RFB15	16
33 CH16	34 RFB16	17
35 CH17	36 RSTD1	18
37 CH18	38 RSTD2	19
39 CH19	40 RSTD3	20
41 AGND	42 EXT TRIG	21
43 EXDO	44 DGND	22
45 EXG1	46 DGND	23
47 EXG2	48 -5V	24
49 +12V	50 -12V	25

PC-192A

IDC-50M		D
1 PC7	2 DGND	1
3 PC5	4 DGND	2
5 PC5	6 DGND	3
7 PC4	8 DGND	4
9 PC2	10 DGND	5
11 PC2	12 DGND	6
13 PC1	14 DGND	7
15 PC0	16 DGND	8
17 PB7	18 DGND	9
19 PB6	20 DGND	10
21 PB5	22 DGND	11
23 PB4	24 DGND	12
25 PB3	26 DGND	13
27 PB2	28 DGND	14
29 PB1	30 DGND	15
31 PB0	32 DGND	16
33 PA7	34 DGND	17
35 PA6	36 DGND	18
37 PA5	38 DGND	19
3		