





Features

- 8 or 12 independent 12bit DAC outputs
- Multiple PC 66C Cards can be used in one computer
- Parallel trigger available on all DACs
- Mono / Bipolar Voltage Outputs present
- Voltage Outputs selectable
- · Remote Sensing function available to eliminate long lead resistance
- Optically isolated external trigger line

Description

The PC -66C is a high accuracy / low noise 12bit (D/A convertor card). Aiming to replace the existing PC 66A/B Card, it contains 8 / 12 DACs capable of driving ± 10 mA. Parallel trigger facility on all 12 DACs [8 and 4] are useful especially in 3 phase applications where phase errors are critical. This facility allows all 12 DACs [8 and 4] to be updated simultaneously by updating two 8bit Control words. This is also an enhancement to the PC 66A/B which only offers parallel trigger facility on 8 DACs. Another enhancement is that all the PC66C DACs support unipolar or bipolar modes of operation. Wait-state circuitry is incorporated to enable users to run the PC 66C on computers with fast bus speeds.

Ordering Information

Supplied with EDR Software	
PC-66C-8	8 Channel D/A Board
PC-66C-12	12 Channel D/A Board

Specifications	
ANALOG OUTPUTS	
No of Channels:	8 / 12
Resolution:	12bit (0.02%)
Relative Accuracy:	±1 LSB
Differential non-linearity:	±0.9 LSB
Quantization uncertainty:	±0.9 LSB
DC Output Impedance:	0.01 Ohm
Settling Time:	10mS
Voltage output Ranges:	±10V, ±5V, 0 to 5V, 0 to 10V
Offset Error:	
Unipolar:	0 to 5V, 0 to 10V
Bipolar:	±10V, ±5V
Ref Voltage:	Variable from 4.5V to 10.5V
Max current output:	±10mA
External Trigger IRQ:	1RQ2 - 1RQ7
GENERAL	
Monotonicity:	0 to 70°C
Base address:	Dip Switch (30H-1FFFH)
Power requirements:	+5V 100mA
	±12V: 200mA

DB-37F

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

ADPT-3740	IDC20 (M) to 21way Screw Terminal
DB37M/F	37way Screened Cable DB37 (M) to (F)

System Diagram

