



## Ordering Information

Supplied with Software							
VERSION	MODULE	BIT	REF.VOLT.	L-L Volt	FREQ.	O/P TYPE	POWER
PC40-SA-M	192E501&	12	115V rms	90V	400Hz	Synchro	5.0VA
PC40-SA-O	192B802#	12	115V rms	90V	400Hz	Synchro	1.5VA
PC40-SB-M	192E500&	12	26V rms	11.8V	400Hz	Synchro	5.0VA
PC40-SB-O	192B800#	12	26V rms	11.8V	400Hz	Synchro	1.5VA
PC40-SC-M	192E503&	12	115V rms	90V	400Hz	Resolver	5.0VA
PC40-SC-O	192B803#	12	115V rms	90V	400Hz	Resolver	1.5VA
PC40-SD-M	192E502&	12	26V rms	11.8V	400Hz	Resolver	5.0VA
PC40-SD-O	192B804#	12	26V rms	11.8V	400Hz	Resolver	1.5VA
PC40-SE-M	192E504*&	12	115V rms	90V	60Hz	Synchro	5.0VA
PC40-SE-O	192B806A*#	12	115V rms	90V	60Hz	Synchro	1.5VA
PC40-TA-M	192E601&	14	115V rms	90V	400Hz	Synchro	5.0VA
PC40-TA-O	192B702#	14	115V rms	90V	400Hz	Synchro	1.5VA
PC40-TB-M	192E600&	14	26V rms	11.8V	400Hz	Synchro	5.0VA
PC40-TB-O	192B700#	14	26V rms	11.8V	400Hz	Synchro	1.5VA
PC40-TC-M	192E603&	14	115V rms	90V	400Hz	Resolver	5.0VA
PC40-TC-O	192B703#	14	115V rms	90V	400Hz	Resolver	1.5VA
PC40-TD-M	192E602&	14	26V rms	11.8V	400Hz	Resolver	5.0VA
PC40-TD-O	192B704#	14	26V rms	11.8V	400Hz	Resolver	1.5VA
PC40-TE-M	192E604*&	14	115V rms	90V	60Hz	Synchro	5.0VA
PC40-TE-O	192B706A*#	14	115V rms	90V	60Hz	Synchro	1.5VA
PC40-TF-N	192F500**	14	115V rms	90V	400Hz	Synchro	4.5VA
PC40-TG-O	192F501**	14	115V rms	90V	60Hz	Synchro	1.5VA

\* Requires two external transformers    \*\* NO External ±15V Supply  
 # Requires ±15V Power Supply (450mA peak capability)  
 & Requires ±15V Power Supply (2A peak capability with no current limiting)

## Features

- ◆ Synchro or resolver outputs available
- ◆ 12 or 14-bit resolution option
- ◆ Accuracy: 14-bit (4 arc-minute); 12-bit (6 arc-minute)
- ◆ Input data rate: 14-bit - 4000 degs/S max  
12-bit - 8000 degs/S max
- ◆ Excitation frequencies - 60Hz or 400Hz
- ◆ Drives up to 5VA loads
- ◆ Transformer isolated outputs
- ◆ "Locked Rotor" protection
- ◆ Short-circuit and overload protection
- ◆ Full power supply protection and software control

## Description

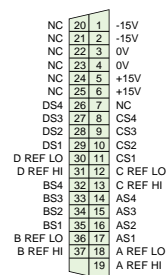
The PC-40 is a versatile, full-size IBM PC card designed for 1 to 4 channels of digital to synchro, or digital to resolver conversion. Options with output voltages of 90VL-L or 11.8L-L are available. High power outputs are transformer isolated, and provide maximum protection.

The card is double-buffered and the 12-bit angle information is provided in two 8-bit bytes. The I/O addressing space is switch-selectable with a DIP-switch.

## Optional Accessory Diagram



## DB-37M Digital to Resolver/Synchro



## Optional Accessories

ADPT-3740	DB37 (M) & IDC40 (M) to 41way Screw Terminal Adaptor
DB37/F/F	DB37 (F) to DB37 (F) Screened Cable

View Adaptors & Cables on pg.35-40

View Software on pg.30-34

ISA Data Acquisition Boards

## Specifications

Frequency Range:	400Hz - 10KHz
Frequency Stability:	±5%
<b>Outputs</b>	
REF 1:	2.5Vrms ±5% @ 3mA max. (In-phase with RH-RL)
REF 2:	2.5Vrms ±5% @ 3mA max. (90 phase advanced)
RH-RL (1):	6 - 115Vrms @ 5 watts max.
<b>Power Supplies</b>	
Voltage:	±15V ±10%
Current:	50mA + load

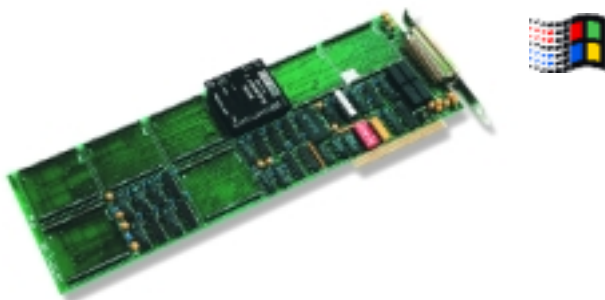
## Features

- ◆ Used with PC-40, PC-41, PC-58
- ◆ In-phase and quadrature output
- ◆ Short circuit and overload protection
- ◆ Thermal cut-off protection
- ◆ Integral heat sinking
- ◆ Synchro/Resolver excitation
- ◆ Inductosyn™ excitation
- ◆ LVDT excitation



## Ordering Information

VERSION	O/P Voltage	Frequency
PC42-100	6V	400Hz
PC42-101	12V	400Hz
PC42-102	6V	400Hz
PC42-103	12V	400Hz
PC42-104	6V	1.0kHz
PC42-105	12V	1.0kHz
PC42-106	6V	2.6kHz
PC42-107	12V	2.6kHz
PC42-108	6V	5.0kHz
PC42-109	12V	5.0kHz
PC42-110	6V	10.0kHz
PC42-111	12V	10.0kHz



### Ordering Information

Supplied with Software						
VERSION	MODULE	BIT	REF.VOLT.	L-L VOLT.	FREQ.	I/P TYPE
PC58-A	268A301	12	115V rms.	90V	50Hz-2.6kHz	Synchro
PC58-B	268A300	12	26V rms.	11.8V	50-2.6kHz	Synchro
PC58-C	268A312	12	2.5V rms.	2.5V	360Hz-2.6kHz	Resolver
PC58-D	268A304	12	26V rms.	11.8V	50-2.6kHz	Resolver
PC58-E	268A305	12	115V rms.	90V	50-2.6kHz	Resolver

### Features

- ◆ Synchro or Resolver inputs
- ◆ Accuracy of 8.5 arc-minutes
- ◆ Conversion rate - 1mS max
- ◆ High quality velocity outputs
- ◆ Direction bit provided
- ◆ High tracking rate of 100RpS
- ◆ Excitation frequencies from 50Hz - 2.6kHz
- ◆ Separate reference inputs for each channel
- ◆ Software supplied for driving 2 speed systems

### Description

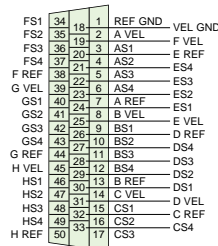
The PC-58 is a versatile, full-size IBM PC card designed for one to eight channels of tracking resolver-to-digital or synchro-to-digital conversion. Options for input voltages of 90VL-L or 11.8VL-L are available. A high quality velocity output, which has a full-scale voltage of  $\pm 10V$ , is provided for each channel, as well as a direction bit.

The card is double buffered, and the 12-bit angle information is provided in two 8-bit bytes to the computer. The I/O addressing space is selectable with a DIP-switch.

Full software drivers for signal and dual speed systems are provided. The software supports Windows DOS/98/2000/XP, C and Pascal. Also included is full demonstration software, which can be included in real applications.

With its high tracking rates, the PC-58 is an excellent choice for applications such as motor control, antenna positioning, CNC machine tooling, robot axis control and process control.

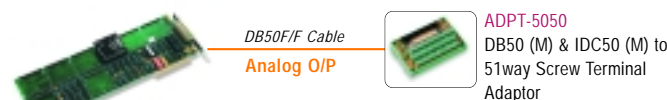
### DB-50M Resolver/Synchro to Digital



### Optional Accessories

ADPT-5050	DB50 (M) & IDC50 (M) to 51way Screw Terminal Adaptor
DB50F/F	DB50 (F) to DB50 (F) Screened Cable

### Optional Accessory Diagram



### Features

- ◆ Utilizes up to (8x) CSI modules on PC-58 Card
- ◆ Excitation frequencies from 400Hz - 10KHz
- ◆ Separate reference inputs for each channel
- ◆ Insensitive to amplitude changes
- ◆ 11-bit position output
- ◆ Accuracy :0.1% of full scale
- ◆ Over-range bit provide
- ◆ High tracking rate to 100 RpS
- ◆ High repeatability
- ◆ Velocity outputs provided
- ◆ Drift free

### Ordering Information

Supplied with Software							
VERSION	MODULE	BIT	REF.VOLT.	L-L VOLT.	FREQ.	Set. TIME	Slew Rate
PC41-A	278A300*	11	2.5V rms	2.5V	400kHz	200 LSB/ms	50mS
PC41-B	278A301*	11	2.5V rms	2.5V	1-10kHz	400 LSB/mS	25mS

\* Derives its power from the PC-58 board