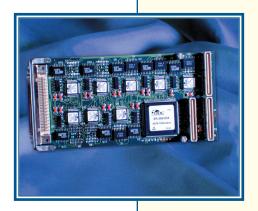


EIGHT CHANNEL R/S-D PMC CARD

MODEL: SB-36410IX



FEATURES

- Programmable Inputs, Resolution, and Bandwidth
- Accuracy Up to 1.3 Arc Minutes
- Synthesized Reference
- Each Channel Accepts Independent References
- Available -40°C to +85°C Temperature Range
- Encoder Emulation Capability

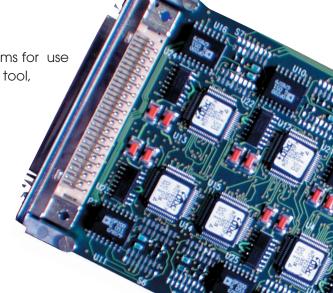
DESCRIPTION

The SB-36410IX card provides a complete PMC solution for resolver/synchro-to-digital conversion. The card utilizes an RD-19230FX monolithic converter, one of DDC's flagship products with a longstanding history of success throughout applications worldwide. The SB-36410IX helps reduce design-in time and cost with its many programmable features-including programmable inputs of 2 V direct and 11.8V/90 V synchro or resolver type, and programmable bandwidth for 15/45 Hz or 100/300 Hz.

The SB-36410IX contains synthesized reference to protect against input-to-reference phase shift differences up to 45°. Built-in test, velocity outputs, and available temperature ranges of -40°C to +85°C make this card an exceptional value.

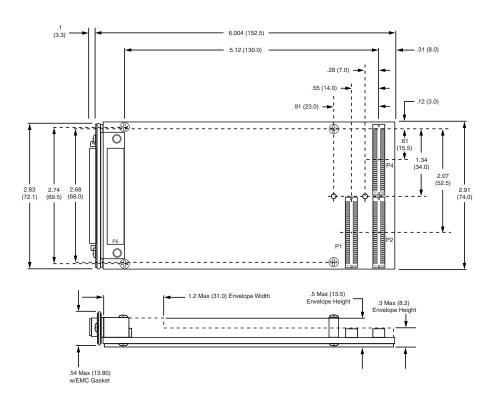
APPLICATION

This COTS card is ideal for VME and cPCI control system. It provides a complete solution for modifying encoder-based systems for use with resolver inputs. Typical applications include motor, machine tool, antenna, robotics, and process control.

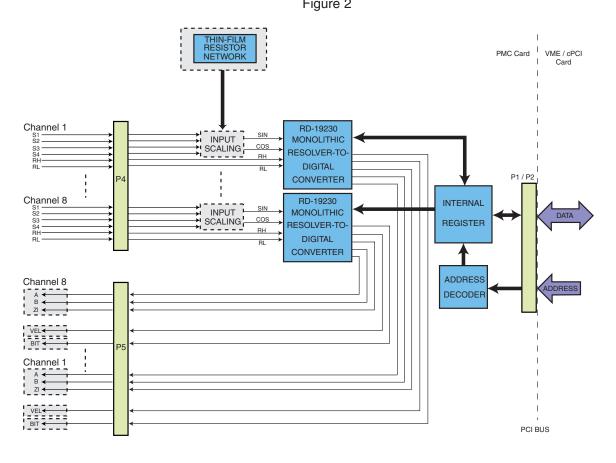


SB-36410IX Mechanical Outline

Figure 1



Block Diagram Figure 2



Specifications						
PARAMETER	UNITS		VALUE			
RESOLUTION	Bits			10, 12, 14 or 16 p	programmable	
ACCURACY XX2	Min.		47-1k (note 2) 1 +1 LSB		1k-4k 1 +1 LSB	4k-7k 2 +1 LSB
SIGNAL INPUT Option # Synchro Zin Line to Line Zin each Line to Ground Resolver Zin Single Ended Zin Differential	Vrms L-L Ohms Ohms Vrms L-L Ohms		Option 0 2 Vrms dire- 10M min	Solid State (note 3) 20pf (note 1)	Option 1, 2 11.8 52k 35k 11.8 70k	Option 3, 4 90 195k 130k - -
Common Mode Range	V		N/A		30 max	-
REFERENCE INPUT (RH, RL)	Solid State Option 0 Option 1, 2 Option 3 C					Ontion 2
Option # Carrier Frequency Type Voltage Range Input Impedance	Hz Vrms		Option 0 360 - 7k Differential 2 - 40	360 - 7k Differential 2 - 40	360 - 1k Differential 50 - 130	Option 3 Differential 50 - 130
differential single ended Common-mode Range	Ohms Ohms Vpeak		100k 50k 50	100k 50k 50	300k 200k 50	300k 200k 50
DIGITAL OUTPUTS A, B, Zero Index (ZI) Drive Capability After set into A quad B mode			50pf+ Logic 0: 1 TTL load, 1.6mA at 0.4V max Logic 1: 10 TTL loads, -0.4mA at 2.8V min Logic 0: 100mV max driving CMOS Logic 1: +5V supply minus 100mV min driving CMOS			
POWER SUPPLY REQUIREMENTS Voltage Current	Vdc A typical		3.3V Supply 0.06	5.0V Su 0.30	pply	
TEMPERATURE RANGE Operating -30X -20X Storage	°C °C		0 to +70 -40 to +85			
-30X -20X	°C		-20 to +100 -50 to +150			
PHYSICAL CHARACTERISTICS Size Weight	in. mm. oz g		6.00 x 2.91 x 0. 152.5 x 74 x 13 3.88 (max) 110 (max)			

Note 1: || = "in parallel with"

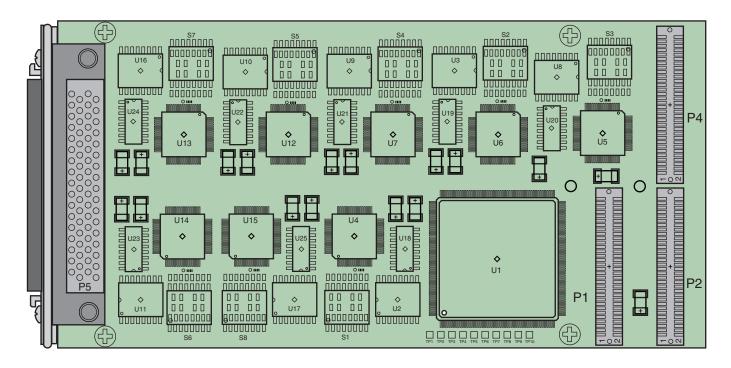
Note 2: If the frequency is between 47 and 1 kHz, then there will be 1 LSB of jitter.

Note 3: Direct input requires SIN input, COS input, and a common ground.

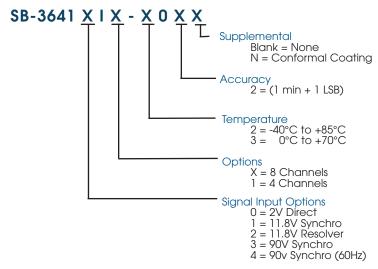


Component Assembly

Figure 3



Ordering Information





The information in this **Product Brief** is believed to be accurate; however, no responsibility is assumed by Data Device Corporation for its use, and no license or rights are granted by implication or otherwise in connection therewith.

Specifications are subject to change without notice.



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