

**Analog Commutation:**

The commutation scheme for each analog input can be defined independent of other analog inputs and the serial communication channels. Each analog input can be normally commutated (one sample per PCM frame), super commutated (several samples per PCM frame) or sub commutated (less than one sample per PCM frame).

**Serial Communication Ports:**

Protocol:	Asynchronous serial communication
Electrical interface:	EIARS-422
Word length:	8 bits
Parity:	None
Number of start bits:	one
Number of stop bits:	one
Baud rates supported:	115.2 Kbps, 57.6 Kbps, 38.4 Kbps 19.2 Kbps, 900 bps, 4800 bps
Single block size:	256 bytes (including id pattern) maximum
Start of block id:	4 Byte ID pattern at the beginning of the block

**Serial Port Commutation:**

The byte data in the buffer can be normally commutated, sub commutated or super commutated into the PCM stream, as if each word corresponds to an analog input word. Each data byte received on a communication port can be configured as single PCM word. In this case, the data byte is aligned to LSB. It is also possible to pack two consecutive bytes of RS-422 data into a single PCM word.

Facility is also available to commutate the complete RS-422 buffer into each PCM frame as a burst. Starting word position and the block size are defined in the configuration.

**GUI Software:**

PC based GUI software running in WINDOWS2000/XP environment is provided for programming the encoder for desired configuration via PC parallel interface. The software allows through a user friendly interface, defining various PCM parameters, commutation schemes and RS-422 port configurations and downloading them into the encoders.

**Interface Connector:**

51 pin high density micro D receptacle

**Operating Conditions:**

Power supply voltage:	5.75 V $\pm$ 0.25 V
Power supply current:	200 mA maximum
Operating Temperature:	-20°C to +65°C
Humidity:	5 to 90% RH
Vibration:	Sinusoidal: 20 to 500 Hz, 10g, 10 min on each axis Random: 20 to 200 Hz, 0.06g <sup>2</sup> / Hz, 10 min on 3 axes
Shock:	100 g, 3 msec, 3 axes, 2 shocks/axes

**Dimensions:**

Length:	75 mm
Width:	60 mm
Height:	25 mm

Contact Park Controls for the latest details on the pricing and data sheets.  
Specifications are subject to change without notice