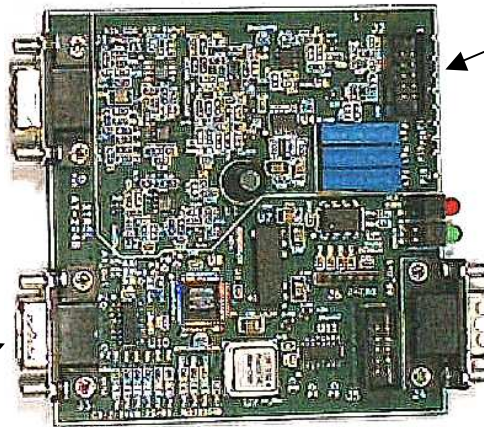


Sin/Cos Encoder Converter-Interpolator.
(AT-2048)

Sin/Cos + Index Analog
signals Input

Serial port for calibration
and configuration storage



Converted square-wave
(A quad B) + Index
signals Output

Zero-cross square-wave
(A quad B) + Index
signals Output.

Specifications:

Input:	Sine/Cosine Analog 0.1 to 1.2 Vpp or 11 μApp;
Input frequency (max)	680 kHz, resolution dependent;
Output	A quad B (square-wave) incremental + Index + + zero-cross detector signals;
Multiplication factor selection:	
Binary	1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048;
and	
Decimal	25, 40, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 800, 1000, 1600, 2000.
Resolution:	up to 8192 (selected multipl. factor * 4 in controller)
Multiplication and calibration:	I2C-bus interface.
Digital adjustment:	EEPROM configuration for storage of setup data (front-end conditioning features offset 8 bit; amplitude ratio 5 bit; phase 6 bit calibration; index position and width; selectable input gain; multiplication factor and angle hysteresis settings).
Dimensions:	98.5 mm x 95.2 mm