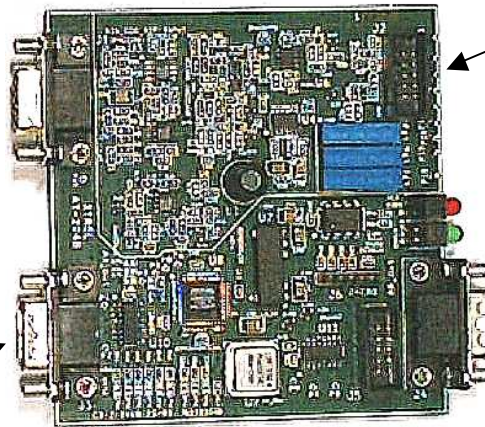


**Sin/Cos Encoder Converter-Interpolator.**  
**(AT-2048)**

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:**

<b>Input:</b>	<b>Sine/Cosine Analog 0.1 to 1.2 Vpp or 11 <math>\mu</math>App;</b>
<b>Input frequency (max)</b>	<b>680 kHz, resolution dependent;</b>
<b>Output</b>	<b>A quad B (square-wave) incremental + Index + + zero-cross detector signals;</b>
<b>Multiplication factor selection:</b>	
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.
<b>Resolution:</b>	<b>up to 8192 (selected multipl. factor * 4 in controller)</b>
<b>Multiplication and calibration:</b>	<b>I2C-bus interface.</b>
<b>Digital adjustment:</b>	<b>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).</b>
<b>Dimensions:</b>	<b>98.5 mm x 95.2 mm</b>