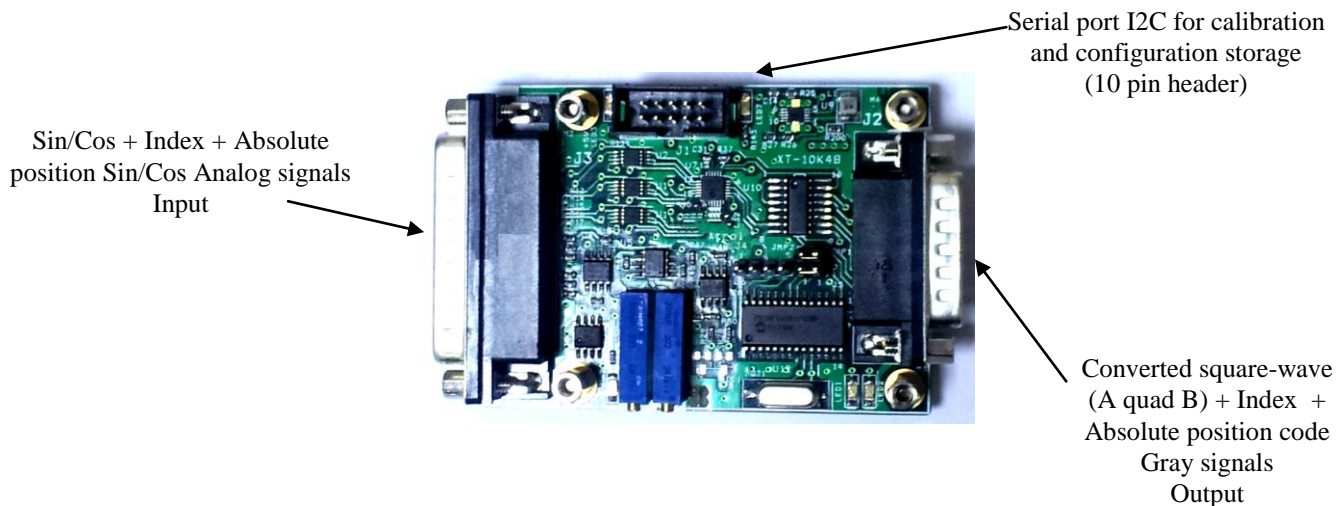


Sin/Cos Encoder Converter-Interpolator.

(XT-10K48)



Specifications:

Input:	Sine/Cosine Analog 0.1 to 1.2 Vpp (11 μAmp optional) + One Sine/Cosine Analog 0.1 to 1.2 Vpp per revolution for motor sinusoidal commutation (so-called Z1 track); 25-pin motor encoder connector (male).
Input frequency (max)	up to 230 kHz, resolution dependent.
Output	A quad B (square-wave) incremental + Index + Absolute position values code Gray signals (TTL level) for 3- and 4-pair poles motors; 15-pin connector (female).
Multiplication factor selection:	from 0.25 to 64 with step of 0.25.
Resolution:	up to 256 (selected multipl. factor x4 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:	55 mm x 90 mm (PCB + connectors); 65 mm x 90 x 29 mm (external metal box size for 1 unit). 65 mm x 90 x 46 mm (external metal box size for 2 units). 65 mm x 90 x 63 mm (external metal box size for 3 units).