

Toado™

USB 2-channel Encoder Interface



Toado™ is an USB 2-channel encoder interface compatible with all the versions of Windows XP, 7, 8™. It enables movement control and cartography solutions in nondestructive testing

OVERVIEW

The Toado™ has 2 incremental encoder inputs with 32-bit resolution for each channel. It accepts encoder outputs in TTL level and sends the encoder values to an external computer through the USB bus. The Toado™ uses a FTDI USB interface chip so it can be easily integrated to user's software written in C, C++, Delphi, Labviews under Windows, Linux environments.

The encoders interface chips can count up to 40 MHz pulses frequency. The maximal reading frequency depends on the data transfer rate from the Toado™ to the computer. This interface uses the internal UART and a UART-USB converter manufactured by FTDI.

FEATURES

- Encoder connector compatible with Olympus Omniscan™ series
- FTDI USB interface chip easy to use with user's programming languages

TECHNICAL SPECIFICATIONS

- *Input level:* TTL
- *Input encoder signals:* A, B, Index
- *Counting frequency:* DC to 40 MHz max.
- *Data transfer rate to PC:* 420 records at 115,200 bauds setting under Windows XP
- *Encoders supply:* 5V to 24V
- *Input connector:* DSub15 HD (like a VGA connector)
- *USB port:* compatible USB2
- *Weight:* 150 gr

CONNECTOR PINOUT

Connector type: DSub 15 HD (high density)

Order reference for the plug: 617-0470 (Radiospares)

Pin	I/O	Signal	Description	Current	Level
3	Out	+5V	Encoders power supply	500 mA	-
9	In	A1	Phase A, encoder 1	-	TTL
10	In	B1	Phase B, encoder 1	-	TTL
11	In	A2	Phase A, encoder 2	-	TTL
12	In	B2	Phase B, encoder 2	-	TTL
15	-	Gnd	Ground	-	-

The other pins of the connector are not connected

REAR VIEW



COMMERCIAL CONTACT

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