

# KE-XTUSB



XT Keyboard to USB  
Keyboard Protocol Converter

## User Manual



Thank you for purchasing the model KE-XTUSB signal converter.

## **HAGSTROM ELECTRONICS, INC.**

is pleased that you have selected this product for your application.

Please take a few minutes to read this manual before using your KE-XTUSB.

If you have any questions about the use of the KE-XTUSB not covered in this manual, please contact us directly. We offer toll free technical product support from 8:00am to 5:00pm M-F Eastern Time **888-690-9080**. You may also send an email to

***sales@hagstromelectronics.com***

We respond to all email requests within one business day.

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## KE-XTUSB



## Introduction to the KE-XTUSB

The KE-XTUSB device is a product designed to convert the output of an XT style keyboard into a USB Keyboard. Signals from the XT keyboard are received by the KE-XTUSB and converted into corresponding USB keystrokes for use on any computer that supports a standard USB keyboard.

### Quick Setup

- 1) Attach the XT keyboard cable to the 5 pin Female DIN connector of the adapter connected to the KE-XTUSB.
- 2) Connect the USB cable included with the unit to the USB port on the target PC. Use a USB port directly on the PC or a USB connector on a self powered USB hub. The KE-XTUSB is powered directly from the USB port, no external power is required. The first time the KE-XTUSB is plugged into the target PC, standard USB keyboard drivers will be installed.
- 3) The KE-XTUSB is now ready to be used. Type on your XT keyboard as normal.



## Notes on Operation

The KE-XTUSB is powered from the USB port of the target computer. Since the unit is also powering the XT keyboard, and the XT keyboards can have significant current requirements, the KE-XTUSB must be connected to a direct USB port on the PC, or a self powered USB Hub. The unit should not be connected to a bus powered USB Hub.

The status LEDs on an XT style keyboard for Num Lock, Caps Lock, and Scroll Lock are local functions on the keyboard. With modern keyboards these status LEDs are commanded by the PC. With the XT keyboard, they are controlled locally on the keyboard, with no synchronization with the PC's status for these functions. To achieve proper operation, simply make sure that the PC's status lights match the default state of the XT keyboard status lights when the KE-XTUSB unit is plugged in or at PC power up.

## KE-XTUSB Specifications



|                          |                           |
|--------------------------|---------------------------|
| <b>Operating Voltage</b> | 5 Volts DC +/- 5%         |
| <b>Operating Current</b> | 500 ma Maximum (with Kbd) |
| <b>Operating Temp.</b>   | 0 to 70 Degrees C         |
| <b>PC Interface</b>      | USB - Target Computer     |
| <b>Cable Length</b>      | 3 feet USB                |
| <b>Keyboard Protocol</b> | XT Type Only - 5 pin DIN  |
|                          |                           |

## Custom KE-XTUSB Options

We offer custom and special modifications to our standard KE-XTUSB unit to conform to your exact specifications. Please contact us if you have special requirements.

### Questions or Comments?

Please give us a call!

Toll Free

**888-690-9080**

or visit us on the web

**[www.hagstromelectronics.com](http://www.hagstromelectronics.com)**

email: **[sales@hagstromelectronics.com](mailto:sales@hagstromelectronics.com)**



## Warranty

**HAGSTROM ELECTRONICS, INC.** warrants this product against defects in material or workmanship for a period of ONE YEAR from the original purchase date. We will repair or replace (at our option) the returned defective unit at no charge during this warranty period.

No responsibility is assumed for any special, incidental, or consequential damage resulting from the use of or inability to use this product. In no case is **HAGSTROM ELECTRONICS, INC.** to be liable for any amount which exceeds the purchase price of the unit, regardless of the claim.

No other warranty, written or verbal, is authorized. This warranty is applicable only to units sold in the United States. Units sold outside the United States are covered by a similar warranty.

Depending on the state in which you live, you may have additional rights.

Great care has been taken during the assembly, testing, and burn-in of your KE-XTUSB to ensure its performance. If you have any questions, please send us an email or give us a call. Support is available Monday through Friday, 8:00 am to 5:00 pm (EST).

customer service email: *[sales@hagstromelectronics.com](mailto:sales@hagstromelectronics.com)*

Call Toll Free **888-690-9080**, or **(540) 465-4677**

**NOTICE:** The KE-XTUSB product is designed to be used by technically oriented computer users.



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