

KE-XTUSB



XT and AT Keyboard to USB
Keyboard Protocol Converter

User Manual



Thank you for purchasing the model KE-XTUSB 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.

Send an email to,

sales@hagstromelectronics.com

We respond to all email requests within one business day.

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KE-XTUSB Connectors



KE-XTUSB LED Indicators



Introduction to the KE-XTUSB

The KE-XTUSB device is a product designed to convert the output of an XT or AT style keyboard into a USB Keyboard. Signals from the XT/AT 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) Set jumpers according to the type of keyboard being used. (See the jumper reference on the next page)

****No jumper changes are needed for standard XT Keyboard to USB conversion.**

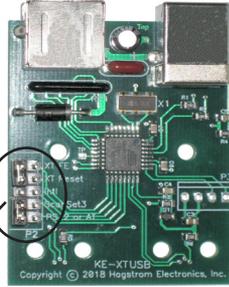
2) Attach the keyboard's cable to the 5 pin Female DIN connector of the adapter connected to the KE-XTUSB. If using a PS/2 type keyboard connector, remove the 5 pin DIN adapter from the unit and plug the keyboard directly into the miniDIN on the KE-XTUSB.

3) Connect the USB cable included with the unit to the KE-XTUSB and then to a USB port on the target computer. Use a USB port directly on the computer 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.

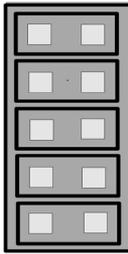
4) The KE-XTUSB is now ready for use. Type on your keyboard as normal.



KE-XTUSB Configuration Jumpers



KE-XTUSB
Option Jumpers



XT FE	_____	Special signal option for XT keyboards Use with non-standard XT keyboards
XT RESET	_____	Activates hardware reset for non-standard XT keyboards. Default = ON
Intl	_____	If using a non-USA keyboard, use this jumper for activating non-USA keys.
Scan Set 3	_____	Close this jumper if using a special PS/2 keyboard that only uses scan set 3.
PS/2 or AT	_____	Close this jumper if using an AT or PS/2 keyboard instead of an XT keyboard.

****NOTE: Jumper selection changes must be made with power off**

Notes on Operation -

The KE-XTUSB is powered from the USB port of the target computer. Since the unit is also powering the keyboard, and the vintage 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 AT and PS/2 keyboards, the status LEDs are commanded by the PC and will automatically synchronize with the PC states. 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.

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 send us an email!

or visit our website

www.hagstromelectronics.com

email: **sales@hagstromelectronics.com**



KE-XTUSB Specifications

Operating Voltage	5 Volts DC +/- 5%
Operating Current	500 ma Maximum (with Kbd)
Operating Temp.	0 to 70 Degrees C
PC Interface	USB - Target Computer
Cable Length	3 feet USB
Keyboard Protocol	XT, AT, or PS/2

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.

customer service email: *sales@hagstromelectronics.com*

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



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