KB232   RS-232 Keyboard Adapter

The KB232 PS/2 Keyboard RS-232 adapter allows a PS/2 style keyboard to be connected to an RS-232 port of a computer or other equipment using RS-232 communications. The KB232 can be useful in embedded computing environments when PS/2 or USB ports are not available. Features of the KB232 adapter are:
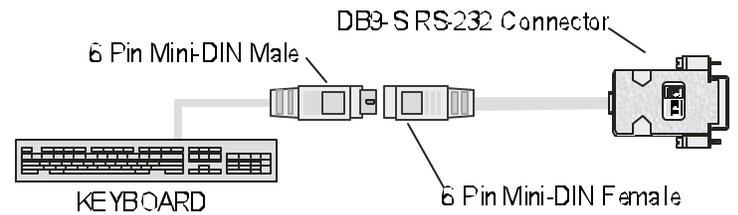
FEATURES

♦ **Translates PS/2 Keyboard Keys to ASCII** - Keys with ASCII equivalents translated into ASCII characters. This means that standard alphanumeric keys, number keys, and punctuations are translated to their logical equivalents

♦ **Repeat/Delay Configurable** - Keyboard repeat delay and repeat rate can be configured.

♦ **Local operation of Caps Lock and Num Lock Keys** - Caps Lock and Num Lock keys operate as expected. Their initial ON/OFF state when power is applied can be configured.

♦ **Five Emulation Modes** – Terminal emulation options are available for non-ASCII keys such as the Arrow keys, Home, End, etc. These options are "TTY ASCII" terminal, "ANSI" terminal, "VT-220/320" terminal, and "PC" terminal.

♦ **Flexible RS-232 settings** - Flexible serial communications options include baud rates of 9600, 4800, 2400 and 1200 baud. Parity selections of even, odd or none are available.

♦ **Custom keyboard mappings** - Custom keyboard mappings can be loaded to change the ASCII character (or characters) assigned to the keyboard keys.

♦ **Can Draw power from RS-232** - The KB232 can draw power from the RS-232 connection which can be enough power to some keyboards to work without any other power source.

♦ **LED Indicator Disable feature** - Keyboard LED operation can be disabled to save power.

KB232 PS/2 TO RS-232 KEYBOARD ADAPTER

KEYBOARD CONNECTION

RS-232 CONNECTION

Pin	Signal	KB232 Function
1	Chassis Ground	
2	RX (Receive) from KB232	RS-232 Output
3	TX (Transmit) to KB232	RS-232 Input
4	DTR or 9-12V DC Power	RS-232 Input (Used to power the KB232)
5	Signal Ground	Ground
7	CTS or 9-12V DC Power	RS-232 Input (Used to power the KB232)

SPECIFICATIONS

Connector: RS-232	DB9-S
Connector: PS/2 Keyboard	6-Pin Mini-DIN, Female
Cable Length	5 inches
Power: w/o Keyboard	10ma Max, .7-12VDC
FCC Approval	Class B
Temperature	0-50°C (32-120°F)