



KB232

RS-232 Keyboard Kit

The KB232 RS-232 Keyboard Kit includes a PS/2 style keyboard and a KB232 PS/2 to RS-232 adapter. An RS-232 keyboard can be useful in embedded computing environments when PS/2 or USB ports are not available. Features of the kit 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 or set using the "Turbo" key.
- ◆ **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. The keyboard and adapter in this kit has been tested to work with most desktop computers without a power supply. Some laptops which don't provide true RS-232 levels may need an external supply.
- ◆ **LED Indicator Disable feature** - Keyboard LED operation can be disabled to save power.

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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 | 6 feet |
| Power: Keyboard & Adapter | 20ma Max, .7-12VDC |
| FCC Approval | Class B |
| Temperature | 0-50°C (32-120°F) |