KMOD-USB

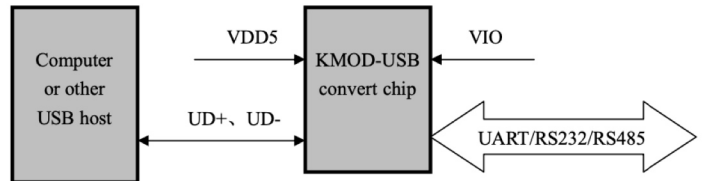## USB Modbus Adapter

Introduction

KMOD-USB is a USB bus converter chip, which converts USB to high-speed serial UART interface, provides common MODEM signal, to expand serial UART interface of computer or upgrade common serial devices or MCU to USB bus directly.

Features

• Full-speed USB device interface, USB 2.0 compatible.

• Built-in firmware, emulate standard UART interface, used to upgrade the original serial peripherals or expand additional serial UART via USB.

• Original serial applications are totally compatible without any modification.

• Support free installation OS which built-in CDC driver or multifunctional high-speed VCP vendor driver.

• Hardware full-duplex serial UART interface, integrated independent transmit-receive buffer, supports communication baud rate varies from 50bps to 6Mbps.

• Support 5, 6, 7 or 8 data bits, supports odd, even, space, mark and no parity.

• Support common MODEM interface signals RTS, DTR, DCD, RI, DSR and CTS.

• Support CTS and RTS hardware automatic flow control.

• Support half-duplex, provides sending status TNOW which support RS485 to switch.

• Support RS232 interface, through external voltage conversion chip.

• Support USB port 5V and 3.3V power supply.

• I/O independent power supply, supports 5V, 3.3V, 2.5V and 1.8V power supply, supports backflow prevention.

• Integrated power-on reset, integrated 12MHz clock, no external crystal required.

• KMOD-USB integrates EEPROM used to configure the chip of VID, PID, maximum current value, vendor and product information string, etc.

• RoHS compliant SOP16, ESSOP10 and QFN16 lead-free package.