

The UIC4202 USB 2.0 Extender ASIC enables true plug and play long reach USB 2.0 connectivity over wired media including CAT5/CAT5e/CAT6.

## Description

The UIC4202 series is a solution made available in low cost package. It is based on a high-performance processor architecture that integrates many system-level functions, such as an 10/100Mbase Fast Ethernet MAC/PHY and controller, USB2.0 PHY and controller, efficient microcontroller, embedded ROM and RAM, and in-circuit-emulator which helps engineer to debug system without the hassle of handling messy emulators.

## Features

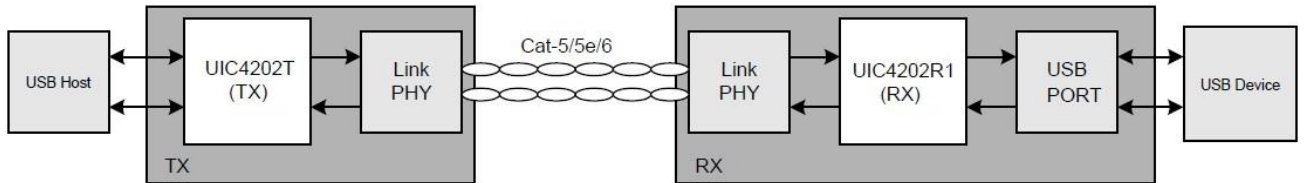
- Embedded USB2.0 host controller and transceiver, totally compliant with USB1.1/USB2.0 (Hi-speed) specification.
- Integrates 10/100Mbps Fast Ethernet MAC/PHY.
- Embedded Ethernet 802.3/3u transceiver, compliant with 100BASE-TX and 10BASE-T PMD level standards.
- Supports MDI/MDIX auto crossover function (Auto-MDIX).
- Supports majority Ethernet protocols TCP/IP.
- Supports LED indicators for Ethernet speed and connection.
- Supports up to 4 USB devices via external USB2.0 HUB controller(UIC4102R4 only).
- Driver installation: Supports Windows XP、Windows Vista 32Bit and 64 Bit、Windows7 32 bit and 64 bit.
- Integrates on-chip power-on reset circuit.
- 3.3V IO voltage/1.8V core voltage.
- Small form factor with 64-pin LQFP (UIC4202T) or 80-pin LQFP (UIC4202R1 and UIC4102R4) RoHS compliant package.
- Operating temperature range: 0°C to 70°C.

## Applications

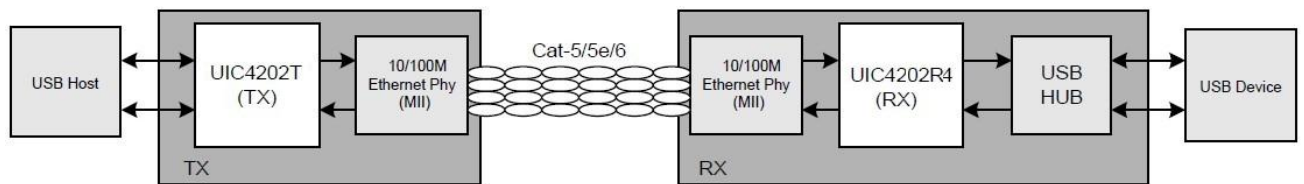
- USB 2.0 CAT 5 Extender
- KVM Extender
- USB Video and Audio connectivity
- Remote Desktop USB Connection
- Home network integration
- Industrial Control
- Automotive Telematics
- Medical devices
- Security devices

# Typical Applications

## 100m USB 2.0 Wired Extender (1 USB Port)



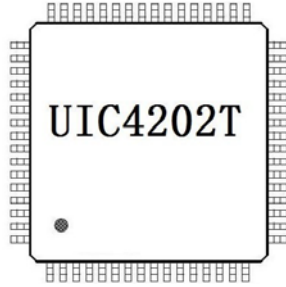
## 100m USB 2.0 Wired Extender (4 USB Ports)



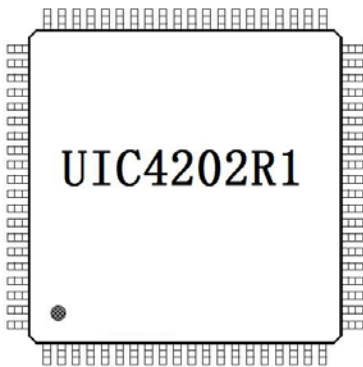
# Pinout Diagram Information Table

Product ID	Package	Description
UIC4202T	LQFP64 7x7mm <sup>2</sup>	Single chip transmit controller
UIC4202R1	LQFP80 12x12mm <sup>2</sup>	One USB port receive controller
UIC4202R4	LQFP80 12x12mm <sup>2</sup>	Four USB ports receive controller

- UIC4202T in 64-pin LQFP package



- UIC4202R1 in 80-pin LQFP package



- UIC4202R4 in 80-pin LQFP package

