

USB to IrDA[®] SIR Adapter

ACT-IR100UD-v2/v3



- Supports mandatory IrDA layer: IrPHY[™], IrLAP[™], IrLMP[™], TinyTP[™] and IAS[™].
- Supports upper layers IrCOMM[™], IrLPT[™], and OBEX[™].
- Supports both IrDA Primary and Secondary mode, changeable by COMSET utility.
- Supports host baud rate from 1.2 kbps to 115.2 kbps, which is changeable by COMSET utility. IrDA baud rate from 9.6 kbps to 115.2 kbps, which is flexible setting by IrDA devices.
- USB to RS232 Serial conversion device and its driver creates Virtual COM port, which has Less Latency time compared with any other virtual COM port, average 1.5 ms. while that of a real COM port is about 0.5ms.
- Fully compliant with USB 2.0 (Full speed, 12 Mbps).
- Two chips in this dongle: USB chip and IrDA chip. USB chip has 256 bytes outbound buffer and 256 bytes inbound buffer.

IrDA chip Buffer size

IrDA Chip	Buffer (Bytes)				
	Host Inbound	Host Outbound	IrDA In Frames	IrDA Out Frames	Total
ACT-IR8260D	1K	1K	0.5K	0.5K	3K

- Nothing or minimum changes in user software, which are already working with ACT-IR100SD RS232 serial adapter and previous version ACT-IR100UD USB adapter.
- It is USB bus powered device. No need any external power supply.
- A very useful Evaluation Kit Full Set is ACT-IR100UDK-v2/v3, which includes: ACT-IR100UD-v2/v3 and ACT-IR402xU/IR400xUS or IR2012UL/IR200xUL (IrDA FIR USB adapter).

This kit can evaluate data transmission between ACT-IR100UD-v2/v3 (your device) and ACT-IR402xU/400xUS or IR2012UL/200xUL (PC), running under HyperTerminal in Windows.

It can avoid debugging multiple issues at the same time and save your developing time.

- Supports all Windows from Win98, up to [Win 8/10/11 \(32 & 64 bit\)](#), [Win Server 2003/2008 \(32 & 64 bits\)](#), Mac OS (both Intel & Power PC), [Android](#), Linux, Windows-CE (ARM & x86).

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Specifications

❖ Host Communication Speed

Factory default preset at 115.2 k bps; changeable to 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, or 115.2 kbps through Utility setup

❖ Allowable IrDA[®] Communication Speed and Distance:

Speed: 9.6k, 19.2k, 38.4k, 57.6k, 115.2k bps;

Distance: 1 cm ~158 cm

❖ Power Source

Obtains power directly from USB port; no external power needed

❖ Power Consumption:

Active mode current: ≤ 20.0 mA, Ready mode current ≤ 19.5 mA

❖ Dongle Dimension / Weight:

Head 6.2 cm (2.4") L X 3.6 cm (1.4") W X 1.9 cm (0.7") H;

Cable 120 cm (47.2") / 62.5 g (2.19 oz)

❖ Operating / Storage Temperature:

0°C to 60°C / -20°C to 85°C

(32°F to 140°F / -4°F to 185°F)

The only IrDA[®] adapter supplier that has test tools to help your system to be IrDA[®] compliant !

ACTiSYS Corporation

921 Corporate Way

Fremont, CA94539, U.S.A.

Tel: +1-510-490-8024

Fax: +1-510-623-7268

E-mail: <mailto:irda-info@actisys.com>

Web Site: <http://www.actisys.com>

