iFoundry

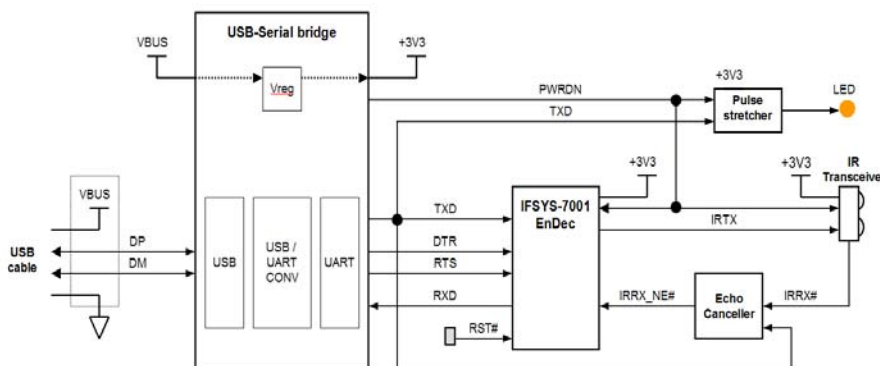| IFSYS-8004 USB Serial-IR Adapter	Product Brief

The IFSYS-8004 USB Serial-IR Adapter is intended for applications which need to transfer raw serial data wirelessly over a serial infrared link. It is ideal for OEMs, and equipment designers who do not wish to make significant changes to their legacy serial software, but who now require a wireless means of transferring data. IFSYS-8004 comes with a USB driver that appears as a virtual serial port in the host system, allowing existing legacy serial applications to work with little or no modification. IFSYS-8004 hardware simply encodes the serial data stream into IrDA^{TM} physical layer infrared pulses for transmission and demodulates incoming infrared pulses into serial UART data. Data between host and adapter is transferred over the USB link. The IFSYS-8004 USB Serial-IR Adapter allows equipment designers to work with raw serial data without having to worry about the intricacies of a higher level protocol.

Key features

☐ Converts "raw" serial data to infrared.

☐ Hardware is IrDA^{TM} V1.1 physical layer compliant, with a transmit range of 1m.

☐ USB low power device. Driver appears as a Microsoft Windows™ virtual COM port.

☐ Ideal for industrial and medical equipment and instrumentation applications.

IFSYS-8004 Block Architecture

IFSYS-8004 USB Serial-IR Adapter | Product Brief

SPECIFICATIONS

Features
- □ IrDA[TM] V1.1 compliant physical layer hardware, 1m transmit range
- □ Supports SIR communication speeds:
  - 9,600 bps
  - 19,200 bps
  - 57,600 bps
  - 115,200 bps

Operating System support
- □ Windows XP, XP Professional
- □ Windows 2000, 2000 Professional
- □ Windows Vista

Interface
- □ USB V1.1, compatible with USB V2.0 ports.

Electrical characteristics
- □ Temperature:
  - Operating: 0^oC to $+40^o$C
  - Storage: -20^oC to $+70^o$C
- □ Average current consumption:
  - ~60mA (max.) (transmitting @ 115,200bps)
  - ~350uA (max.) (USB suspend mode).

Regulatory qualifications
- □ FCC
- □ CE
- □ Safety (EN60950)
- □ Others [*1]

Dimensions
- □ Casing (excluding cable): 49mm (W) x 63mm (L) x 34mm (H).
- □ Cable length: 1.5m
- □ Weight: ~120g

Ordering Information

Order Number	Order Description
IFSYS-8004A:3101	Bulk packed units in box of 120. Without CDs and Warranty cards.

[*1] iFoundry can provide assistance to equipment designer/manufacturer in certifying to other regulatory standards.

IrDA[TM] is a trademark of the Infrared Data Association.

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Infrared Data Association

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