USB to IrDA® SIR Adapter

ACT-IR100UD

- Supports mandatory IrDA® layer: IrPHY™, IrLAP™, IrLMP™ and IAS™.
- Supports upper layers TinyTP™, IrCOMM™, IrLPT™, and OBEX™ transport.
- Supports both IrDA Primary and Secondary mode, changing via PC utility.
- Supports 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, or 115.2 kbps through Utility setup.
- Virtual COM port supported through Prolific USB to Serial device. Virtual COM has Less Latency time, average is 1.5 ms. The latency of a real COM port is about 0.5ms.
- Fully compliant with USB 2.0 (Full speed, 12 Mbps).
- USB chip has 256 bytes outbound buffer and 256 bytes inbound buffer.
- IrDA chip has 2048 bytes IR frame and 2048 bytes Host buffer.
- Nothing or minimum changes in user software, which are already working with ACT-IR100SD RS232 serial adapter.
- No need any external power supply.
- ACT-IR82x0D evaluation kit is also optional for evaluation & development purpose.

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

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### Specifications

- **Host Communication Speed**
  Factory default preset at 115.2 kbps; 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:**
  - Transmit current: 62 mA,
  - Receive current: 46 mA,
  - Ready current: 44 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

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