ACT-IR100SD provides a serial interface to a host device that intends to have infrared communication capability. It handles all the details about IrDA® protocols, with hardware flow-control. It supports both Primary and Secondary modes. When it is set to Primary mode, user can choose IrCOMM™, IrLPT™ or OBEX™ PUT/GET server to be Primary protocol via a simple PC utility.

- Complete IrDA Protocol stack in dongle.
- Supports both IrDA Primary and Secondary mode, changeable via PC utility.
- Supports mandatory IrDA layer: IrPHY™, IrLAP™, IrLMP™, and IAS™.
- Supports upper layers TinyTP™, IrCOMM™, IrLPT™, and OBEX™ PUT/GET server.
- Supports 3 wires host interface (Tx, Rx and GND).
- No driver is needed.

Interface to Host:

- Full-duplex asynchronous serial (TXD, RXD)
- Hardware flow control (RTS, CTS)
- Optional line status for link control (DTR, DSR)
- Other unused inputs (RI, CD)
- Designed for use in RS232C level and it is in DTE (Data Terminal Equipment) configuration.

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The only IrDA® adapter supplier that has test tools to help your system to be IrDA® compliant!
**IR100SD OBEX Server**

*an IrReady™ Intelligent Embedded RS232 Adapter*

**Specifications**

- **Communication speed:**
  - Supports host baud rate from 1.2 kbps to 115.2 kbps, which is changeable by PC utility.
  - Supports IrDA® baud rate from 9.6 kbps to 115.2 kbps, which is flexible setting by IrDA® devices.

- **IR frame and host buffer:**
  - 2048 bytes on both.

- **DC supply voltage:**
  - 6.0 ~ 12 V, typical 7.5 V

- **Operating/Storage temperature range:**
  - 0 ° ~ 60° C / -40° ~ 85° C

- **Power consumption:**
  - 40 mA ready mode; 50 mA active mode

- **Infrared transmitting range:**
  - 1 cm ~ 158 cm

- **RS232 signal threshold level**
  - ±3 ~ ±12 V; typical ±6 V

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**CTiSYS Corporation**

921 Corporate Way
Fremont, CA 94539-6118, U.S.A.
Tel: +1-510-490-8024
Fax: +1-510-623-7268
E-mail: irda-info@actisys.com
Web Site: http://www.actisys.com