

Intelligent SIR RS232 Adapter

ACT-IR100SD / ACT-IR100SDi

- Supports mandatory IrDA® layer: IrPHY, IrLAP, IrLMP and IAS.
- Supports upper layers TinyTP, IrCOMM, IrLPT, and OBEX transport.
- Supports host baud rate from 1.2 kbps to 115.2 kbps, which is changeable by PC utility; IrDA baud rate from 9.6 kbps to 115.2 kbps, which is flexible, setting by IrDA devices.
- Supports both IrDA Primary and Secondary mode, changing mode via a PC utility.
- No driver is needed.
- IR frame and Host buffer are 2048 bytes separately.
- Supply voltage 6.0 V to 12V.
- Power consumption: 20 mA standby, 50 mA active.
- Supports 3 wires host interface (Tx, Rx and GND).
- 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)
- Internal PCBA available (Model # ACT-IR100SDi)

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Specifications

- **Infrared Transmitting Range :**

Typical 158 cm; Maximum 200 cm

- **DC Supply Voltage :**

6 V ~ 12 V ; Typical 7.5 V

- **Operating Temperature Range :**

0° C ~ 60° C

- **DC Current (Standby Mode) :**

40 mA

- **DC Current (Active Mode) :**

Typical 50 mA; Maximum 150 mA

- **RS232 Signal Threshold Level :**

$\pm 3 \text{ V} \sim \pm 12 \text{ V}$; Typical $\pm 6 \text{ V}$

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