

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 :

 $0^{\circ} \text{C} \sim 60^{\circ} \text{C}$

DC Current (Standby Mode) :

40 mA

DC Current (Active Mode) :

Typical 50 mA; Maximum 150 mA

RS232 Signal Threshold Level :

\pm 3 V ~ \pm 12 V; Typical \pm 6 V

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