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)

All trademarks, logos, company and product names are owned by the respective companies & organizations
### 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:**
  - ± 3 V ~ ± 12 V; Typical ± 6 V

---

All trademarks, logos, company and product names are owned by the respective companies & organizations.